Date Posted: 9/11/2015

NORTH MARIN WATER DISTRICT
AGENDA - REGULAR MEETING
September 15, 2015 – 7:00 p.m.
District Headquarters
999 Rush Creek Place
Novato, California

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Est. Time	Item	Subject
7:00 p.m.		***CALL TO ORDER***
	1.	***APPROVE MINUTES FROM REGULAR MEETING***, September 1, 2015
	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:*** CalPERS Resolution to Reduce District Contribution **Resolution**
		ACTION CALENDAR
	7.	***Consider:*** 1955 Indian Valley Road
	8.	***Approve:*** Revise Board Policy #26 – On-Call and Stand-By Duty
	9.	***Approve:*** Recycled Water Expansion to Central Service Area Project – Clean Water State Revolving Fund Loan CEQA Project Approval **Resolution**
	10.	***Approve:*** Marin LAFCO Countywide Water Service Study – NMWD Comments
8:00 p.m.		***INFORMATION ITEMS***
	11.	FY15 Residential Consumption Status Report
	12.	***MISCELLANEOUS*** Disbursements Mandated Cost Reimbursement Technical Advisory Committee Regular Meeting Notice of Cancellation

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:
Why proposed COIN law is bad for taxpayers
Water agency hosts free efficiency giveaway
IPUD bans outdoor watering systems
Marin hits water saving goals for August
Water added to Camp Meeker's Dutch Bill Creek a 'lifesaver' for young fish
Marin IJ Editorial: Marin water-users meet state's drought mandate

8:30 p.m. 13. ***ADJOURNMENT***

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DRAFT
NORTH MARIN WATER DISTRICT
MINUTES OF REGULAR MEETING
OF THE BOARD OF DIRECTORS
September 1, 2015

CALL TO ORDER

President Baker called the regular meeting of the Board of Directors of North Marin Water District to order at 7:00 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.

Mike Jolly, Novato Resident, District employees Ryan Grisso (Water Conservation Coordinator), Pablo Ramudo (Water Quality Supervisor), Dave Jackson (Associate Engineer) Robert Clark (Operations/Maintenance Superintendent) and Tony Arendell (Construction/Maintenance Superintendent) were in the audience.

MINUTES

On motion of Director Schoonover, seconded by Director Petterle, the Board approved the minutes from the previous meeting as presented by the following vote:

AYES: Directors Baker, Fraites, Petterle, Rodoni and Schoonover

NOES: None

GENERAL MANAGER'S REPORT

West Marin Water District's Meeting

Mr. DeGabriele informed the Board that tomorrow he is meeting with managers of the West Marin Water District's to coordinate responses on the Marin LAFCO Countywide Water Service Study.

Gallagher Ranch Potential Groundwater

Mr. DeGabriele advised the Board that Mr. McIntyre, Mr. Clark and he will will meet with the District's geotechnical consultant (PES Environmental) at the Gallagher Ranch to kick off the search for another upstream well site adjacent to Lagunitas Creek.

OPEN TIME

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

STAFF / DIRECTORS' REPORTS

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

Mr. McIntyre reported that the Aqueduct Energy Efficiency Project's 42" diameter aqueduct has been pressure tested and disinfected. He stated that the north connection to the existing 30" aqueduct has been made and it's expected that the south connection will be completed tomorrow with the middle connection yet to complete. He informed the Board that once the north and south connections are made both aqueducts will be placed in service to enable service laterals to be moved from the existing 30" to the new 42" aqueduct over the next 3 weeks. Mr. McIntyre further advised that Ken Sinclair will be leaving Vali Cooper & Associates to join Carollo Engineers but will be available to finish up pending change orders. He noted that Justin Seufert from Vali Cooper & Associates will take over the Construction Manager's position in Sinclair's absence.

Mr. McIntyre also advised that he and Brad Stompe attended the Stafford Lake Bike Park grand opening on 8/22 which was extremely well attended and is expected to be a huge success in the community.

Director Rodoni reported that he attended the Sonoma County Water Agency's Water Education Center Grand Opening on 8/20 representing the District and the Water Advisory Committee (WAC). He stated that he spoke on behalf of the Water Contractors as the WAC chair and commented that it is a beautiful facility.

CONSENT CALENDAR

On the motion of Director Petterle, seconded by Director Fraites the Board approved the following items on the consent calendar by the following vote:

AYES: Directors Baker, Fraites, Petterle, Rodoni and Schoonover

NOES: None

OUT OF STATE TRAVEL FOR DREW MCINTYRE

The Board authorized Drew McIntyre to travel out of state to attend the AWWA spring conference in Las Vegas, Nevada from October 25th through the 29th.

COST OF AEEP DEDICATION PROJECT

The Board approved the October 1, 2015 date for the Aqueduct Energy Efficiency Project Dedication at Olompali State Park with a budget of $3,100.

CONTRACT FOR DRAFTING SERVICES FY15-16 – ABEREGG

The Board approved a miscellaneous drafting services agreement with Michael Aberegg with a not-to-exceed limit of $30,000.

ACTION CALENDAR

RESPONSE TO CIVIL GRAND JURY REPORT – COIN

Mr. Bentley introduced the proposed response to the Marin County Civil Grand Jury request for the District to adopt a resolution supporting Civic Openness in Negotiation (COIN) advising that it's likely it stems from interest promoted by Citizens for Sustainable Pensions. He noted that the District's Board has always paid great attention to labor costs and labor agreement details. He indicated that the proposed response was reviewed by the District's Employee Association which believes it may be too subtle and was reviewed by the District's labor relations counsel Joe Wiley who opined that COIN was a solution in search of a problem. Mr. Bentley advised the Board that in essence the District's response recommends the Board consider adopting a supportive policy but not verbatim with that recommended in the Grand Jury report.

There was discussion about considering a board policy and after some minor clarifications recommended by President Baker and Director Petterle the Board approved sending a response to the Grand Jury.

On motion of Director Fraites, seconded by Director Petterle, the Board approved the amended proposed response to the Civil Grand Report advocating adoption of COIN by the following vote:

AYES: Directors Baker, Fraites, Petterle, Rodoni and Schoonover

NOES: None

INFORMATION ITEMS

WATER CONSERVATION YEAR END REPORT (JULY 2014 THROUGH JUNE 2015)

Ryan Grisso, Water Conservation Coordinator, reviewed the Water Conservation year-end report advising that this was the biggest Cash for Grass year ever. He indicated that rebates for Ultra Low Flush Toilets and the High Energy Efficient Washers should be reviewed in the future since these fixtures are now the standard available in the marketplace. He advised that Ultra High Efficiency Low Flow Toilets should still be rebate eligible. Mr. Grisso further reported on Water

Conservation outreach efforts and advised that Facebook has now become the most effective method when reaching customers and generating participation response.

Director Rodoni asked for information on the timing of the "Lawn be Gone" program from application to material delivery, advising that his experience with property in Petaluma was that it took too long. Mr. Grisso indicated that in Novato this program is administered by a 3rd party but should take about two weeks.

FOURTH QUARTER FY14/15 – WATER QUALITY REPORT W/ QUARTERLY BACTERIOLOGICAL MONITORING REPORT

Pablo Ramudo, Water Quality Supervisor provided the year-end report for Water Quality advising that annually staff samples and tests for algae in Stafford Lake and this year tested for harmful cyanotoxins which were not found. He stated that in West Marin sodium exceeded the District's threshold for only one week and that the Gallagher well supply now being used is expected to reduce sodium and bromide in the finished water thus reducing the threat disinfection of bromide by products due in the West Marin water supply. He further suggested that the use of Gallagher supply should reduce threat of lead and copper in household plumbing in the future and reported that the increased monitoring in January and July 2015 showed no samples above the action level.

FY15- OPERATIONS/MAINTENANCE YEAR END REPORT

Robert Clark, Operations/Maintenance Superintendent made the year-end report on Operations/Maintenance noting that the peak day demand in Novato was only 10.8MGD and that both West Marin and Oceana Marin flows are also much lower due to drought year water conservation response. He reported that the West Marin Coast Guard Well #2 is now being rehabilitated and staff should know soon if the effort is successful. He further advised that the Stafford Lake Taste and Odor Control Study is nearing completion and should be available for a report to the Board in the next two months. Finally Mr. Clark informed the Board that emergency generator connections are now installed at all pump stations improving reliability and worker safety.

YEAR END PROGRESS REPORT – ENGINEERING DEPARTMENT

Mr. McIntyre provided a power point presentation on the year-end progress report for the Engineering Department. He advised the Board that the Novato Water CIP expenditures were 81% completed, Recycled Water CIP was 95% completed and West Marin CIP expenditures were 79% completed of the approved FY14-15 budget. He stated that a total of 39 projects were originally budgeted in the Novato, West Marin and Oceana Marin service areas, three projects were added, thirteen were carried over and six projects were deferred or dropped resulting in adjusted budget

total of 40 projects. He noted that at year end 33 out of the 40 projects have been completed by all departments and 24 out of Engineering 34 projects have been completed.

MONTHLY BILLING

Mr. Bentley provided the pro's and con's of monthly billing to the Board. He stated that it would be much more cost efficient with automatic meter readings (AMI). He stated that with monthly billing postage would double. He advised the Board with the pilot program for the AMI in the budget this year; staff is hoping to move to monthly billing in the next three years. He stated that with AMI reads, customers would be able to log on and see usage on an hourly basis.

Director Fraites asked for a rough estimate to install the AMI program for the entire service area. Mr. Bentley responded $5M.

REDUCED WATER SALES VOLUME

Mr. Bentley provided the Board with the reduced water sales volume. He stated that if Novato potable water consumption continues for the balance of this fiscal year at a rate of 36% less than fiscal year 2013/2014, the Novato Water would see a cash decrease of $2M. He provided the Board with several actions that to be taken to stem the cash decrease.

Director Rodoni thanked Mr. Bentley for providing the information and taking it a step further to see where the District can reduce costs.

NBWA MEETING – SEPTEMBER 11, 2015

President Baker advised the Board that he will be attending the North Bay Watershed Association Meeting on September 11th.

MISCELLANEOUS

The Board received the following miscellaneous information: Disbursements and Marin County Fish & Wildlife Commission Annual BBQ.

The Board received the following news articles: Central Valley locales sinking 2 inches a month as groundwater is drained, Feds release extra water to save Klamath salmon from disease, Four-time Novato mayor Ernie Gray dies at 80, Bikers catch air at opening of Stafford Lake Bike Park in Novato, Marin supervisors reject call for greater labor talk transparency, Marin water district sees ongoing pipe project as tool in drought effort, Californias cut water use by 31 percent in July, and California, US Seeks Permit for State's Giant Water Tunnels.

The Board also received the following news articles at the meeting: Press Release: Drought Drive Up Events Coming to Roseland, Windsor, and North Marin Water District and State plans tighter oversight to stem Russian River pollution.

President Baker acknowledged Ernie Gray passing and stated that he was a great guy and great human being.

Mr. DeGabriele reminded the Board of the Drought Drive Up being held at the District office on Thursday, September 10th.

ADJOURNMENT

President Baker adjourned the meeting at 8:15 p.m.

Submitted by

Katie Young
District Secretary

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NORTH MARIN WATER DISTRICT
MONTHLY PROGRESS REPORT FOR ***August 2015***
September 15, 2015

1.

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

Month	*FY15/16*	*FY14/15*	*FY13/14*	*FY12/13*	*FY11/12*	*16 vs 15 %*
July	252	319	385	389	371	-21%
August	276	301	360	396	373	-8%
FYTD Total	529	620	745	785	744	-15%

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

Month	*FY15/16*	*FY14/15*	*FY13/14*	*FY12/13*	*FY11/12*	*16 vs 15 %*
July	6.6	8.6	9.3	9.8	9.2	-23%
August	7.0	8.5	9.3	9.7	9.4	-18%
FYTD Total	13.6	17.1	18.6	19.5	18.7	-20%

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

Month	*FY15/16*	*FY14/15*	*FY13/14*	*FY12/13*	*FY11/12*	*16 vs 15 %*
July	108	83	98	49	115	30%
August	79	61	83	83	126	29%
FYTD Total	187	144	181	131	241	30%

Recycled Water Production - in Million Gallons - FY to Date

Month	*FY15/16*	*FY14/15*	*FY13/14*	*FY12/13*	*FY11/12*	*16 vs 15 %*
July	21.3	21.8	27.6	11.2	11.0	-2%
August	26.2	26.0	26.2	10.5	12.2	1%
FYTD Total*	47.6	47.8	53.8	21.7	23.2	0%

*Excludes potable water input into the RW system: FYTD16 = 1.2MG; FYTD15=4.5MG; FYTD14=1.6MG.

2. Stafford Lake Data

	August Average		August 2014		August 2015	
Rainfall this month	0.05	Inches	0.01	Inches	0	Inches
Rainfall this FY to date	0.06	Inches	0.01	Inches	0	Inches
Lake elevation*	185.0	Feet	178.8	Feet	184.2	Feet
Lake storage**	742	MG	417	MG	653	MG

* Spillway elevation is 196.0 feet
** Lake storage less 390 MG = quantity available for delivery

Temperature (in degrees)

	Minimum	Maximum	Average
August 2014 (Novato)	54	94	70
August 2015 (Novato)	55	104	71

3. Number of Services

August 31	Novato Water			Recycled Water			West Marin Water			Oceana Marin Swr		
	FY16	FY15	Incr %	FY16	FY15	Incr %	FY16	FY15	Incr %	FY16	FY15	Incr %
Total meters	20,744	20,751	0.0%	48	48	0.0%	784	821	-4.5%	-	-	-
Total meters active	20,501	20,506	0.0%	44	44	0.0%	776	777	-0.1%	-	-	-
Active dwelling units	23,965	23,950	0.1%	0	0	-	823	823	0.0%	229	229	0.0%

4. Oceana Marin Monthly Status Report (July)

Description	August 2014	August 2015
Effluent Flow Volume (MG)	0.532	0.477
Irrigation Field Discharge (MG)	0.459	0.450
Treatment Pond Freeboard (ft)	5.1	3.8
Storage Pond Freeboard (ft)	6.0	8.8

5. Developer Projects Status Report (August)

Job No.	Project	% Complete	% This month
1.2768.00	OMA Village Water Facilities	75	15

District Projects Status Report - Const Dept (August)

Job No.	Project	% Complete	% This month
1.7067.00	S. Novato Blvd- Rowland to Sunset 12" R/R	92	2
2.7153.00	Upsize 4" pipe from Bear Valley Tanks	45	45

Employee Hours to Date, FY 15/16

As of Pay Period Ending August 31, 2015
Percent of Fiscal Year Passed = 17%

Developer Projects	Actual	Budget	% YTD Budget	District Projects	Actual	Budget	% YTD Budget
Construction	105	1,400	8	Construction	925	4,949	19
Engineering	153	1,480	10	Engineering	843	4,980	17

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 16 through August	0	0	0	0	2	17,998
FY 15 through August	43	21,762	1	0	1	1,704

Days without a lost time accident through August 31, 2015= 91 days

7. Energy Cost

	August			*Fiscal Year-to-Date thru August*		
FYE	*Kwh*	*¢/Kwh*	*Cost/Day*	*Kwh*	*¢/Kwh*	*Cost/Day*
2016 Stafford TP	73,348	18.1¢	$427	147,747	18.1¢	$430
Pumping	134,594	17.7¢	$746	248,939	18.1¢	$740
Other*	44,989	25.5¢	$370	83,878	25.8¢	$361
	252,931	19.2¢	$1,568	480,564	19.5¢	$1,533
2015 Stafford TP	70,034	17.5¢	$396	146,282	17.5¢	$414
Pumping	164,462	16.6¢	$855	326,497	16.8¢	$886
Other*	46,816	22.8¢	$334	92,564	23.2¢	$346
	281,311	17.9¢	$1,572	565,343	18.1¢	$1,646
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

*Other includes West Marin Facilities

8. Water Conservation Update

	Month of August 2015	Fiscal Year to Date	Program Total to Date
High Efficiency Toilet (HET) Rebate ($100 each)	21	48	3,319
Retrofit Certificates Filed	14	41	5,358
Cash for Grass Rebates Paid Out	18	43	737
Washing Machine Rebates	15	21	6,620
Water Smart Home Survey	20	38	2,158

9. Utility Performance Metric

SERVICE DISRUPTIONS	**August 2015 No. of Customers Impacted**	**August 2014 No. of Customers Impacted**
PLANNED		
Duration Between 0.5 and 4 hours	8	22
Duration Between 4 and 12 hours	4	9
Duration Greater than 12 hours		
UNPLANNED		
Duration Between 0.5 and 4 hours	9	26
Duration Between 4 and 12 hours		43
Duration Greater than 12 hours		55
SERVICE LINES REPLACED	**August 2015**	**August 2014**
Polybutylene	14	27
Copper (Replaced or Repaired)	0	4

NORTH MARIN WATER DISTRICT

Summary of Complaints & Service Orders August 2015

9/10/2015

Type	Aug-15	Aug-14	Action Taken August 2015
Consumers' System Problems			
Service Line Leaks	29	29	Notified Consumer
Meter Leak Consumer's Side	0	0	~
House Plumbing	0	0	~
Noisy Plumbing	1	0	PRV failing, customer notified.
Seepage or Other	0	0	~
House Valve / Meter Off	12	7	Notified Consumer
Nothing Found	9	5	Notified Consumer
Low Pressure	1	1	Pressure good @ 47 PSI.
High Pressure	0	0	~
Water Waster Complaints	0	0	~
Total	**52**	**42**	
Service Repair Reports			
Register Replacements	0	0	~
Meter Replacement	3	2	Replaced
Meter Box Alignment	0	0	~
Meter Noise	0	0	~
Dual Service Noise	0	0	~
Box and Lids	1	1	Replaced
Water Off/On Due To Repairs	3	6	Notified Consumer
Misc. Field Investigation	2	5	Notified Consumer
Total	**9**	**14**	
Leak NMWD Facilities			
Main-Leak	0	1	~
Mains-Nothing Found	0	0	~
Mains-Damage	0	0	~
Service- Leak	10	17	Repaired
Services-Nothing Found	6	7	Notified Consumer
Service-Damaged	0	0	~
Fire Hydrant-Leak	2	2	Repaired
Fire Hydrants-Nothing Found	0	0	~
Fire Hydrants-Damaged	0	0	~
Meter Replacement	0	0	~
Meters-Leak	0	0	~
Meters-Nothing Found	0	0	~
Meters Damaged	0	0	~
Washer Leaks	11	11	Replaced
Total	**29**	**38**	
High Bill Complaints			
Consumer Leaks	1	4	Notified Consumer
Meter Testing	0	0	~
Meter Misread	3	8	Notified Consumer
Nothing Found	11	14	Notified Consumer
Projected Consumption	0	0	~
Excessive Irrigation	0	0	~
Total	**15**	**26**	

NORTH MARIN WATER DISTRICT

Summary of Complaints & Service Orders August 2015

9/10/2015

Type	Aug-15	Aug-14	Action Taken August 2015
Low Bill Reports			
Meter Misread	0	0	~
Stuck Meter	0	1	~
Nothing Found	0	1	~
Projected Consumption	0	0	~
Minimum Charge Only	0	0	~
Total	**0**	**2**	
Water Quality Complaints			
Taste and Odor	1	1	***Customer reporting bad taste & odor in water. (S Novato Blvd)*** High chlorine water from newly installed line accidentally entered an adjacent service. Lines were flushed and all chlorine restored to regular system concentration.
Color	1	1	***Customer reported discolored water. (Grant Ave)*** Discolored water cleared before lab staff arrived. Chemistry results normal for NMWD water.
Turbidity	0	0	~
Suspended Solids	0	0	~
Other	1	2	***Customer requested water tested for metals. (Somerset Pl)*** Chlorine & metals results normal for NMWD water.
Total	**3**	**4**	
TOTAL FOR MONTH:	**108**	**126**	**-14%**

Fiscal YTD Summary				Change Primarily Due To
Consumer's System Problems	106	73	45%	Increase In Consumer Service Leaks
Service Repair Report	19	22	-14%	Decrease In Water Off/On To Repairs
Leak NMWD Facilities	64	84	-24%	Decrease In Service Leaks
High Bill Complaints	39	61	-36%	Decrease In Nothing Found
Low Bills	1	3	-67%	Decrease In Stuck Meter
Water Quality Complaints	8	12	-33%	Decrease In Taste & Odor
Total	**237**	**255**	**-7%**	

NORTH MARIN WATER DISTRICT

Summary of Complaints & Service Orders August 2015

9/10/2015

Type	Aug-15	Aug-14	Action Taken August 2015
"In House" Generated and Completed Work Orders			
Check Meter: possible consumer/District leak, high bill, flooded, need read, etc.	195	279	
Change Meter: leaks, hard to read	16	8	
Possible Stuck Meter	0	0	
Repair Meter: registers, shut offs	0	0	
Replace Boxes/Lids	7	0	
Hydrant Leaks	0	0	
Trims	38	11	
Dig Outs	106	53	
Letters to Consumer:			
meter obstruction, trims, bees, gate access, etc.	0	0	
get meter number, kill service, etc.	0	0	
	362	**351**	

Bill Adjustments Under Board Policy:

August 15 vs. August 14

Aug-15	13	$4,340
Aug-14	19	$6,063

Fiscal Year to Date vs. Prior FYTD

15/16 FYTD	36	$8,657
14/15 FYTD	37	$11,467

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MEMORANDUM

To: Board of Directors

September 11, 2015

From: David L. Bentley, Auditor-Controller

Subj: Auditor-Controller's Monthly Report of Investments for August 2015
t:\ac\word\invest\16\investment report 0815.doc

RECOMMENDED ACTION: Information

FINANCIAL IMPACT: None

At month end the District's Investment Portfolio had an amortized cost value (i.e., cash balance) of $12,082,977 and a market value of $12,089,048. During August the cash balance increased by $155,342. The market value of securities held decreased by $4,666 during the month. The ratio of total cash to budgeted annual operating expense stood at 82%, up 1% from the prior month.

At August 31, 2015, 24% of the District's Portfolio was invested in California's Local Agency Investment Fund (LAIF), 37% in Time Certificate of Deposits, 8% in Corporate Medium Term Notes, 17% in US Treasury Notes, and 8% in Federal Agency Securities. The weighted average maturity of the portfolio was 242 days, compared to 252 days at the end of July. The LAIF interest rate for the month was 0.33%, compared to 0.32% the previous month. The weighted average Portfolio rate was 0.59%, compared to 0.58% the previous month. Including interest paid by The Bay Club Company on the StoneTree Golf Club Recycled Water Facilities Loan, the District earned $10,201 in interest revenue during August, with 49% earned by Novato Water, 41% earned by Recycled Water (by virtue of the StoneTree Golf Course Loan) and the balance distributed to the other districts.

NORTH MARIN WATER DISTRICT
AUDITOR-CONTROLLER'S MONTHLY REPORT OF INVESTMENTS
August 31, 2015

Type	Description	S&P Rating	Purchase Date	Maturity Date	Cost Basis[1]	8/31/2015 Market Value	Yield[2]	% of Portfolio
LAIF	State of CA Treasury	AA-	Various	Open	$2,867,823	$2,868,901	0.33% [3]	**24%**
Time Certificate of Deposit								
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%
TCD	Ally Bank	n/a	10/2/14	10/3/16	248,000	248,000	0.95%	2%
TCD	Cardinal Bank	n/a	11/12/14	11/14/16	249,000	249,000	0.80%	2%
TCD	Goldman Sachs	n/a	12/10/14	12/12/16	248,000	248,000	1.00%	2%
TCD	First Niagara Bank	n/a	4/30/15	5/1/17	249,000	249,000	0.75%	2%
TCD	Discover Bank	n/a	5/6/15	5/8/17	248,000	248,000	0.85%	2%
TCD	Capital One Bank	n/a	6/10/15	6/12/17	248,000	248,000	0.90%	2%
TCD	Flagship Cmnty Bank	n/a	6/24/15	6/24/17	249,000	249,000	0.75%	2%
TCD	American Express Bank	n/a	7/8/15	7/10/17	248,000	248,000	1.15%	2%
TCD	Capital One National Assoc	n/a	8/5/15	8/7/17	248,000	248,000	1.20%	2%
					$4,471,000	**$4,471,000**	**0.77%**	**37%**
US Treasury Notes								
Treas	1,000 - 0.50%	n/a	3/26/14	6/15/16	$999,597	$1,001,211	0.55%	8%
Treas	1,000 - 1.00%	n/a	8/4/14	9/30/16	1,003,864	1,005,990	0.65%	8%
					$2,003,461	**$2,007,201**	**0.60%**	**17%**
Federal Agency Securities								
FFCB	1.70% MTN	n/a	9/15/14	10/28/16	$505,955	$507,128	0.68%	4%
FHLB	0.58% MTN	n/a	11/7/14	11/14/16	499,609	499,871	0.64%	4%
					$1,005,563	**$1,006,999**	**0.66%**	**8%**
Corporate Medium Term Notes								
MTN	General Electric	AA+	1/29/13	10/9/15	1,000,158	999,975	0.70%	8%
					$1,000,158	**$999,975**	**0.70%**	**8%**
Other								
Agency	Marin Co Treasury	AA+	Various	Open	$630,140	$630,140	0.22%	5%
Other	Various	n/a	Various	Open	104,831	104,831	0.42%	1%
			TOTAL IN PORTFOLIO		**$12,082,977**	**$12,089,048**	**0.59%**	**100%**

Weighted Average Maturity = **242 Days**

LAIF: State of California Local Agency Investment Fund.
MTN: Medium Term Note - Maturity of 5 years or less.
TCD: Time Certificate of Deposit, Treas: US Treasury Notes with maturity of 5 years or less.
FFCB: Federal Farm Credit Bank, FHLB: Federal Home Loan Bank
Agency: West Marin General Obligation Bond Fund tax receipts & STP State Revolving Fund Loan Reserve.
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, 2015.

Interest Bearing Loans	Loan Date	Maturity Date	Original Loan Amount	Principal Outstanding	Interest Rate
StoneTree Golf Course Loan	6/30/06	2/28/24	$3,612,640	$1,902,179	2.40%
Employee Housing Loans (6)	Various	Various	1,234,200	1,234,200	Contingent
Employee Computer Loan (1)	1/8/2015	1/4/2016	893	299	1.52%
		TOTAL INTEREST BEARING LOANS	**$4,847,733**	**$3,136,678**	

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

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ITEM #6

MEMORANDUM

To: Board of Directors September 11, 2015

From: Dianne Landeros, Accounting/HR Supervisor DL

Subj: CalPERS Resolution to Reduce District Contribution
\\nmwdserver1\administration\finance\memos\bod pers employee contribution 2015.docx

RECOMMENDED ACTION: Approve CalPERS Resolution

FINANCIAL IMPACT: Reduce the District paid Retirement contribution by 1.6%, approximately $70,000[1] 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. Currently employees contribute 4.8% and the District contributes 3.2% of the members' contribution to CalPERS for employees hired prior to January 1, 2013 (Classic members). Employees hired after that date (PEPRA* members) currently pay 4.8% of the members' contribution and the District pays 1.45%.

Attached is CalPERS required Resolution for Employer Paid Member Contributions to reduce the District paid employee contribution to 1.6% (from 3.2% currently) for Classic members and to 0.0% (from 1.45%) for PEPRA members effective October 1, 2015.

Recommendation

Approve the attached resolution reducing the District's CalPERS contribution to 1.6% for Classic members and 0.0% for PEPRA members effective October 1, 2015.

*PEPRA – Public Employees' Pension Reform Act

[1] Calculated: Per Overheaded Payroll Rate Calculation spreadsheet (PPE 9/15/15) CalPERS cost = $957,573 at 3.2% less $887,928 at 1.6%

Approved by GM CD

Date 9/11/2015

RESOLUTION 15-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 1.6% of the normal member contributions for Classic Members as EPMC.
- This benefit shall consist of paying 0.0% of the normal member contributions for PEPRA member as EPMC.
- The effective date of this Resolution shall by October 1, 2015.

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 15, 2015

_____
Jack Baker, 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 15th day of September 2015 by the following vote:

AYES:
NOES:
ABSENT:
ABSTAINED:

_____
Katie Young, District Secretary
North Marin Water District

(SEAL)

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7

MEMORANDUM

To: Board of Directors

Date: September 11, 2015

From: Drew McIntyre, Chief Engineer

Subject: 1955 Indian Valley Rd. – APN 146-322-13 (Shroyer)

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RECOMMENDED ACTION: Consider alternative payment plan for Facilities Reserve Charge

FINANCIAL IMPACT: Negligible foregone interest income

In December 2014, the District received a planning referral from Marin County Community Development Agency regarding design review approval for a 748 square-foot detached accessory dwelling structure (second unit) at the above referenced property.

Over the last few months, District staff and Ms. Shroyer have been discussing NMWD requirements for the project. A New Service Order was submitted to Ms. Shroyer for her signature prior to start of work by NMWD's Construction Department (see Attachment 1). The New Service Order identifies charges to upsize the existing 1-inch meter to a 1-1/2 inch meter for fire sprinkling and also payment of the accessory (second) dwelling unit Facilities Reserve Charge of $10,000. After receipt of the New Service Order. Ms. Shroyer attended the August 18 Board meeting and requested, among other things, reduction of the Facilities Reserve Charges (FRCs) for accessory dwelling units from $10,000 to $9,000. At that time, Ms. Shroyer was reminded that FRCs for accessory dwelling units were previously higher and that the District recently lowered the fees to $10,000 at the request of the City of Novato. No further action was taken on Ms. Shroyer's request.

Subsequent to the August 18, 2015 Board meeting, Ms. Shroyer requested if she could pay the fees associated with upsizing the meter and the water conservation deposit but defer payment of the FRCs until a later date in time. Staff responded that this arrangement would not be acceptable. However staff did offer to take a recommendation to the Board for consideration of payment of the FRCs over a short time interval.

Options for the Board to consider with respect to Ms. Shroyer's request to defer payment of connection fees are summarized as follows:

- Option 1: Require all payments upfront; or
- Option 2: require payment of the meter upsizing charge and water conservation deposit and allow payment of the $10,000 Facilities Reserve Charge in five equal bi-monthly installments on the owner's water bill.

Since Ms. Shroyer is an existing customer and the payment plan is relatively short (i.e., ten months) staff recommends Option 2.

RECOMMENDATION

That the Board approve the option to pay the Facility Reserve Charge in five equal bi-monthly payments.

NORTH MARIN WATER DISTRICT
NEW SERVICE ORDER (NOVATO)

Date _____ By _____

Owner's Name: Jim & Toni Shroyer Area 1 Book 4350 Service # 18743 04

Property Location: 1955 Indian Valley Rd F.M. # D-18 Job # _____

Assessor's Parcel No.: 146-322-13 Contact: (Jeffrey Novak)

Description: Upsize to 1.5" meter & 2" lateral for fire sprinkling / 2nd Unit

Mailing Address: 1955 Indian Valley Rd Novato 94947 Phone: 415-892-7713 415-860-9937 cell

FEE SCHEDULE - REGULATION 1			ACCOUNT DATA & METER BOOK DATA
Description	Size	Charge	Meter Location: existing
Meter Charge	1.5	300.00	(Radio Read, Y (N) (AMI Meter, Y (N)
Lateral Charge	2"	3500.00	Type of Building: ADU
New Development Water Conservation Restrictions Deposit*		1,000.00	*Refundable Deposit Upon Compliance
DCV or RPP (Customer/District)			Inspected by Construction: Date:
Reimbursement Fund Charge			Contamination Hazard: (Medical) (Solar)(Well) Other:
Facilities Reserve Charge			**NMWD PRESSURE SYSTEM DATA**
Dwelling Unit Charge w/Kitchen bath **Est. date of construction:**		10,000.00	Size of Main / Pressure: HP 75-84 psi / Type:
**Work Order # _____			**Estimate brought forward.
Encroachment Permit			Paving Moratorium ☐ Yes ☒ No City/County
Date / Receipt #		$14,800.00	Building: ADU / Meter:
Land Use Approval: Type: Bldg.			Zone: 2, B / Hydropneumatic: ☐ Yes ☒ No

LOW PRESSURE SERVICE AGREEMENT - 40 PSI OR LESS – REGLUATION 11 ☐ COPY RECEIVED_____

I hereby acknowledge that I have received a copy of Regulation 11 and understand that service will be rendered under low pressure conditions and agree to accept this service in lieu of contracting with the District for construction of facilities to provide adequate service. I further waive all claims against the District to provide adequate water pressure and agree to install and maintain a private pressure system equipped with a low suction pressure shut-off control at my expense. I understand that the District will record a low-pressure notice with the County of Marin and that the service will not be activated until a private pressure system is installed and inspected by the District.

Signature: Date:

Designed approved date: (Engineer) Installation inspection date: (Engineer)

HIGH PRESSURE SERVICE AGREEMENT - 80 PSI OR MORE – REGULATION 12 ☑ COPY RECEIVED 8/24/15

I hereby acknowledge that I have received a copy of Regulation 12 and understand that service will be rendered under high pressure conditions and agree to install and maintain a pressure reducing valve and pressure relief valve at my sole expense. I understand that the District will record a high-pressure notice with the County of Marin. I further waive all claims against the District for damages to my property resulting from high-pressure service or the failure of my private pressure regulating facilities.

Signature: Sign Here Date:

Installation inspection date: (Inspector/ Construction)

DISTRICT REGULATIONS AND METER LOCATION

It is the Applicant's responsibility to stake the desired location and grade of this meter installation along the frontage of his/her property at the edge of the public right of way and outside of fenced areas and sidewalk, driveway, parking or traffic areas. The Applicant hereby certifies that he/she has been informed of District regulations governing both installation and location of the service and is aware that changes in the status of the property (subdivision, etc.) which result in noncompliance with District regulations shall be cause for relocation at the Applicant's expense or termination of service by the District. Installation of any RP or PRV requires private side plumbing [illegible] 608 of the CA. Plumbing Code (current edition).

Signature: Sign Here Date:

THIS APPLICATION DOES NOT COVER ANY FIRE DEPARTMENT REQUIREMENTS AND MAY REQUIRE ADDITIONAL WATER FACILTIY CONSTRUCITON WHEN HOUSE IS REMODELED.

DISTRICT REGULATION 15 – WATER SAVING DEVICES AND RESTRICTIONS FOR NEW DEVELOPMENT ☑ COPY RECEIVED 8/24/15

"I hereby agree to comply with all water saving device installation requirements and restrictions for new development in conformance with District Regulation 15 (e) and (f).

Signature: Sign Here Date:

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ATTACHMENT 1

Note: Physical Address for 2nd will be 1953 Indian Valley Rd.

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ITEM #8

MEMORANDUM

To: Board of Directors September 11, 2015

From: Chris DeGabriele, General Manager CD

Subj: Board Policy #26 – On-Call and Stand-By Duty
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RECOMMENDED ACTION: Board approve revisions to Board Policy #26

FINANCIAL IMPACT: Approximately $22,000 per year

During the General Manager's report at the Board's July 21st meeting, the Board was informed of a July 3rd service leak in the Black Point area on Grandview Avenue, which resulted in damage to a homeowner's property. Subsequently, the damage has been repaired and at the Board's August 18th meeting, a water damage claim settlement was approved with the affected property owner.

At that July 21st meeting, the Board was informed of a bigger concern, which was NMWD's response. There were no stand-by duty Construction/Maintenance personnel assigned to assist the on-call construction foreman on that evening of July 3rd.

Senior Staff have met and recommend a change to the District's policy for on-call and stand-by duty making such service mandatory for Construction/Maintenance Personnel (the Construction/Maintenance On-Call and Stand-by duty was previously voluntary). The policy now will require all departments to carry out such a mandatory requirement.

I engaged in a limited negotiation with the Employee Association to standardize compensation for all employees for this service which is projected to result in approximately $22,000 increase in the annual cost of labor. Essentially all employees will now receive $77 per weekday and $115 per weekend or holiday day for performing the on-call or stand-by duty obligation.

RECOMMENDATION:

Board approve the revision to Policy #26 – On-Call and Stand-By Duty and compensation revisions effective September 1, 2015.

DRAFT

NORTH MARIN WATER DISTRICT

POLICY: ON-CALL AND STAND-BY DUTY
BOARD POLICY NUMBER: 26

Original Date: 2006
Last Reviewed: ~~05/17/13~~
Last Revised: ~~05/07/13~~09/04~~1~~/15

Purpose

The purpose of the on-call and stand-by duty program is to provide immediate attention to water and sewer system problems that occur at times other than during normal working hours.

Duties

On-Call

The duties of the on-call District employees are to respond to all after-hours calls and to resolve all problems as simply and quickly as possible. On-call personnel are expected to resolve problems over the telephone, via computer, in the field and/or to call other District personnel when assistance is needed as appropriate. On-call personnel must possess Distribution Operator certification.

Stand-By

The duties of the stand-by District employees are to respond to the on-call personnel request for assistance on holiday weekends as defined below. Stand-by duty begins at 3:30PM the day before the holiday weekend and ends at 7:00AM on the first working day after the holiday weekend. Stand-by personnel are to resolve problems or make facilities safe and secure for completion during the next regular business day. Stand-by Construction crews may include up to 3 employees from the positions of Pipeline Foreman, Heavy Equipment Operator, Pipe Worker, Pipeworker Assistant, Laborer, Field Service Representative, and Operations/Maintenance or other full time regular Distribution Operator certified, trained employees-, at the determination of the Construction/Maintenance Superintendent.

Stand-by will be assigned on the following holiday weekends:

1. New Year's ~~weekend~~ holiday, ~~(~~December 31 (half day) and January 1, or~~)~~ when New Year's Day falls on a ~~Monday or~~ Friday, Saturday, Sunday or Monday.
2. Martin Luther King Holiday (3rd weekend in January)
3. President's Day (3rd weekend in February)
4. Memorial Day weekend (last Monday in May)

5. Independence Day weekend when July 4th falls on a ~~Monday or~~ Friday, Saturday, Sunday or Monday.
6. Labor Day weekend (1st Monday of September)
7. Thanksgiving weekend (4th Thursday & Friday in November)
8. Christmas ~~weekend~~ holiday, December 24 (half day and ~~(~~December 25, or~~)~~ when Christmas Day falls on a ~~Monday or~~ Friday, Saturday, Sunday or Monday.

The on-call and stand-by employees must be available at all times while serving this duty. This means the employee must:

1. Remain within 3~~2~~0 miles of the District office.
2. Remain within range of the cell phone signal.
3. On-call employee responds to calls from the answering service or automated alarm system within 15 minutes of receiving the call.
4. Stand-by employee responds to calls from on-call employee within 15 minutes of receiving call.

Construction and Maintenance on-call and stand-by duty is ~~voluntary~~ required of all Construction/Maintenance personnel except the Superintendent. ~~and a~~Any other regular, full-time employee of the District that resides within 3~~2~~0 miles of the District, and is Distribution Operator certified, trained and capable of performing the required duties, is eligible to voluntarily serve on-call and stand-by duty, subject to the approval of his/her Department Head and the Construction/Maintenance Superintendent. The weekly on-call assignment (3:30PM Tuesday to 7:00AM the following Tuesday) is rotated among the approved on-call duty employees in accordance with a schedule approved by the Construction/Maintenance Superintendent. Substitutions for the Construction and Maintenance on-call duty may be made between on-call personnel with other employees on the schedule with the prior consent of the Construction/Maintenance Superintendent or a Construction Department Foreman. The employee on the schedule shall be responsible to notify the front desk and the answering service of the substitution. Substitutions should be made only when absolutely necessary. ~~An employee should volunteer to be on the on-call schedule for the purpose of serving on-call duty and will lose eligibility to serve on-call duty if they fail to perform the duty regularly.~~

Operations/Electrical Mechanical (Ops/EM) on-call and stand-by duty is required of the Distribution Collection System Operator, the Water Distribution & Treatment Plant Operators, and the Electrical Mechanical section personnel and will be rotated in accordance with a schedule approved by the Operations/Maintenance Superintendent. Substitutions for the Ops/EM on-call duty may be made between on-call personnel with other employees on the schedule with the prior consent of the Distribution/Treatment Plant Supervisor. The employee

on the schedule shall be responsible to notify the front desk, Lab, Treatment Plant On-call personnel and the Construction and Maintenance on-call personnel. The personnel in this program may utilize a District supplied laptop computer to remotely access the Operations SCADA.

Lab on-call and stand-by *duty* is required of the Lab personnel and will be rotated in accordance with a schedule approved by the Water Quality Supervisor. Substitutions for the Lab on-call and stand-by duty may be made between Lab personnel with other employees on the schedule with the prior consent of the Water Quality Supervisor. The employee on the schedule shall be responsible to notify the front desk, Treatment Plant, Ops/EM, Construction, and Maintenance on-call personnel.

Consumer Services on-call duty is required of the Field Service Representatives (FSR) on those nights (typically Wednesday) when water service has been discontinued for non-payment. The on-call duty will be rotated in accordance with a schedule approved by the Consumer Services Supervisor. Substitutions for the on-call duty may be made between the FSRs with the prior consent of the Consumer Services Supervisor.

Compensation

On-call and stand-by employees are paid on a daily or weekly basis for serving on-call or stand-by duty. The compensation rates are on file with the Auditor-Controller and adjustments to these rates will be consistent with any adjustments to the District Salary Schedule.

With the prior approval of the Operatons/Maintenance Superintendent, Ops/EM employees may take 3 hours of compensating time off in lieu of each day of weekend or holiday on-call duty served.

The on-call or stand-by duty compensation is payment for all on-call or stand-by duty service except for time when the employee must respond in the field. If the assigned on-call or stand-by duty service employee must respond in the field or is called to work, overtime shall be paid in accordance with the District's overtime policy.

Lab and Consumer Services on-call duty is scheduled overtime which regularly occurs. Lab and Consumer Services on-call duty may be cancelled at any time (when no scheduled work is required) by the respective supervisor (Water Quality or Consumer Services) resulting in no on call compensation for the cancelled on-call duty.

Revisions: 2006, 05/13

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MEMORANDUM

To: Board of Directors

Date: September 11, 2015

From: Drew McIntyre, Chief Engineer

Subject: Recycled Water Expansion to Central Service Area Project – Clean Water State Revolving Fund Loan CEQA Project Approval (SRF Proj. No. 8086-110)

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RECOMMENDED ACTION:

1. Approval of the Supplemental EA/Addendum and adoption of a resolution finding the conclusions, impact determinations, and mitigation measures provided in the Supplemental EA/Addendum are consistent with the previously approved Final NBWRP EIR/EIS.

2. Authorize the General Manager or his assignee to file the attached Notice of Determination with the Marin County Clerk and State Clearinghouse.

3. Establish the Board as custodian of the documents.

FINANCIAL IMPACT: $11M (included in FY16 and FY17 CIP Budget)

Project Background

North Marin Water District (NMWD) is a Member Agency of the North Bay Water Recycling Authority (NBWRA), which has developed the North Bay Water Recycling Program (formerly the North San Pablo Bay Restoration and Reuse Project) to provide recycled water for agricultural, urban, and environmental uses and to promote the expanded beneficial use of a recycled water system in the North Bay region. The North Bay Water Recycling Program (NBWRP) has been developed in conformance with the requirements of the Reclamation's Public Law 102-575, Title XVI, including preparation of a Feasibility Study, and passage of Senate Bill 1475. NMWD participated in project development and preparation of a Draft and Final Environmental Impact Report/Environmental Impacts Statement (EIR/EIS) analyzing the effects of the NBWRP.

Under the approved NBWRP, the Proposed Action was included in the Phase 1 Implementation Plan (Phase 1 project) as the Recycled Water System Expansion Project, in which Novato Sanitary District (SD) and NMWD would implement service in the Novato Central Service Area through construction of a recycled water distribution system from the Novato SD Waste Water Treatment Plant (WWTP) south to Rowland Boulevard and the Vintage Oaks shopping center, and across Highway 101 to serve urban users west of Highway 101. The process of finalizing the design of the Central Service Area segment of the Recycled Water Expansion Project has resulted in changes to the approved Phase 1 pipeline distribution system

alignment: re-route pipeline from Novato SD Recycled Water Facility to the Vintage Oaks shopping center; move Highway 101 Crossing; extend distribution pipeline to connect to an existing surplus tank and serve existing customers on Ignacio Boulevard; and eliminate the 18-inch recycled trunk line to serve Novato High School.

Prior Board Actions

On December 15, 2009, the North Marin Water District Board of Directors (Board): 1) exercised its independent judgment and analysis, reviewed, and considered the information contained in the Final EIR/EIS for the North Bay Water Recycling Program, and considered the environmental effects and impacts of the project as shown in the EIR/EIS; 2) found that the Final North Bay Water Recycling Program EIR/EIS represents a good faith effort to achieve completeness and full environmental disclosure; and 3) found that the Final North Bay Water Recycling Program EIR/EIS is an adequate informational document, and has provided this Board and the public with full and fair disclosure of potential environmental impacts associated with the project. As part of this action, the Board approved the Phase 1 Implementation Plan, adopted a Mitigation and Monitoring Plan, adopted a Statement of Overriding Considerations, and filed a Notice of Determination.

At the October 5, 2010 meeting the Board unanimously approved similar action items related to adoption of the North Service Area Recycled Water Project Addendum to the North Bay Water Recycling Program EIR/EIS.

On September 6, 2011, the North Marin Water District Board of Directors approved similar action items related to adoption of the South Service Area Recycled Water Project Addendum to the North Bay Water Recycling Program EIR/EIS.

Clean Water State Revolving Fund Program

This Supplemental Environmental Assessment/Addendum (EA) in is available for review on the NMWD website (a hard copy or CD version is available at the NMWD Headquarters) and is intended to satisfy requirements under both the National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA), and to provide project-specific environmental documentation for the project elements proposed under Clean Water State Revolving Fund (CWSRF) Program Application 8086-110, required for review by State Water Resources Control Board (SWRCB). The United States Bureau of Reclamation will to use this EA to identify impacts associated with provision of federal funding under Title XVI for the proposed changes in the NBWRP and to issue a Finding of No Significant Impact. The SWRCB will use this EA, in conjunction with the approved EIR/EIS and associated permits and consultations to consider administration of CWSRF funding. The analyses contained within this

EA will be used to support the acquisition of the additional regulatory permits.

The EA was submitted to the State Clearinghouse on August 14, 2015 for processing and a 15-day public review period (August 14, 2015 – August 28, 2015) to satisfy SWRCB environmental documentation requirements. Two comments were received on the EA during the public comment period (Attachment 1).

RECOMMENDATION

Under CEQA, a new discretionary Board action is not required; however the SWRCB process requires a new Notice of Determination to be filed with the County Clerk and the State Clearinghouse. To facilitate this determination, staff recommends:

1. Approval of the EA and adoption of a resolution (Attachment 2) finding the conclusions, impact determinations, and mitigation measures provided in the Addendum are consistent with the previously approved Final NBWRP EIR/EIS.
2. Authorize the General Manager or his assignee to file the attached Notice of Determination (Attachment 3) with the Marin County Clerk and State Clearinghouse.
3. Establish the Board as custodian of the documents.

memorandum

date September 9, 2015

to Drew McIntyre, North Marin Water District

from Environmental Science Associates

subject Response to Comments on the Environmental Assessment/Addendum for the NMWD Recycled Water Expansion Project – Central Service Area

1. INTRODUCTION

This memorandum has been prepared to respond to comments received on the Environmental Assessment (EA) to the Environmental Impact Statement (EIS) and Addendum to the Environmental Impact Report (EIR) for the North Marin Water District (NMWD) Recycled Water Expansion Project – Central Service Area (proposed project). The EA/Addendum is an informational document prepared by the Lead Agency, NMWD, that addresses proposed changes to the approved North Bay Water Recycling Program (NBWRP) Phase 1 Implementation Plan, analyzed in the NBWRP EIR/EIS (SCH No. 2008072096). The EA/Addendum provides environmental analysis for public review and for the agency decision-makers to consider before taking discretionary actions related to any proposed project that could have a significant effect on the environment.

Prior to the approval of the proposed project, the NMWD Board of Directors must certify that the EA/Addendum adequately discloses the environmental effects of the proposed project, and that the EA/Addendum is the appropriate environmental document for the proposed project and has been completed in conformance with the California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA).

This memorandum for the Central Service Area Project EA/Addendum presents:

- The name of the person and organization commenting on the EA/Addendum; and
- Responses to the received comments.

This memorandum, in combination with the EA/Addendum, completes the Final EA/Addendum.

2. CEQA PROCESS AND COMMENTS RECEIVED

In accordance with Section 15073 of the CEQA Guidelines, NMWD submitted the Draft EA/Addendum to the State Clearinghouse for a 15-day public review period starting on August 14, 2015. The public review period ended on August 28, 2015. During the public review period, NMWD received two comment letters on the Draft EA/Addendum from the California State Lands Commission and the California Department of Transportation (Caltrans).

ATTACHMENT 1

In accordance with CEQA Guidelines Section 15074(b), NMWD Board of Directors considers the Draft EA/Addendum together with comments received during the public review process prior to adopting the Draft EA/Addendum and approving the proposed project. The CEQA Guidelines do not require the preparation of a response to comments document. However, to assist the Board of Directors in considering the comments that were received on the proposed project and identifying potential significant effects not already evaluated in the Draft EA/Addendum, NMWD has prepared this memorandum in response to comments received. Based on the review of the comments received, no new, potentially significant impacts beyond those identified in the Draft EA/Addendum would occur. All potential impacts identified in the Draft EA/Addendum were determined to be either less than significant or less than significant with mitigation.

3. RESPONSE TO COMMENTS AND TEXT REVISIONS

Comment letters are presented and delineated below. Each comment delineated in the comment letter is followed by a corresponding response. In some cases, the response to comments results in a minor modification to the Draft EA/Addendum text. Newly added text is shown in underline format, and deleted text is shown in strikethrough format.

As a result of consultation with the Bureau of Reclamation on the North Marin Water District Central Service Area Final Archaeological Extended Phase I Report, the following clarification has been made to **Mitigation Measure 3.12.1b:**

> **Mitigation Measure 3.12.1b: Archaeological and Native American Monitoring.** If an intact archaeological deposit is encountered, all soil disturbing activities in the vicinity of the deposit <u>(within approximately 100 feet)</u> shall cease until the deposit is evaluated. The appropriate Member Agency, as necessary, shall retain the services of a Native American monitor and a qualified archaeological consultant that has expertise in California prehistory to monitor ground-disturbing within areas designated as being sensitive for buried cultural resources. The archaeological monitor shall immediately notify the appropriate Member Agency of the encountered archaeological deposit. The monitors shall, after making a reasonable effort to assess the identity, integrity, and significance of the encountered archaeological deposit, present the findings of this assessment to NBWRA and the appropriate Member Agency. During the course of the monitoring, the archaeologist may adjust the frequency—from continuous to intermittent—of the monitoring based on the conditions and professional judgment regarding the potential to impact resources.

Comment Letter A

STATE OF CALIFORNIA

EDMUND G. BROWN JR., *Governor*

CALIFORNIA STATE LANDS COMMISSION
100 Howe Avenue, Suite 100-South
Sacramento, CA 95825-8202

JENNIFER LUCCHESI, *Executive Officer*
(916) 574-1800 *Fax* (916) 574-1810
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from Voice Phone 1-800-735-2922

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Contact FAX: **(916) 574-1885**

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Established in 1938

August 28, 2015

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File Ref: SCH #2008072096

Drew McIntyre
North Marin Water District
999 Rush Creek Place
Novato, CA 94945

Subject: Addendum/Environmental Assessment (Addendum) to an Environmental Impact Report/Environmental Impact Statement (EIR/EIS) for North Bay Water Recycling Program, Marin County

Dear Mr. McIntyre:

The California State Lands Commission (CSLC) staff has reviewed the subject Addendum for the North Bay Water Recycling Program (Project), which is being prepared by the North Marin Water District (District). The Project was developed by several North Bay agencies and received funding from the United States Bureau of Reclamation, who is the lead agency for the Project under the National Environmental Policy Act (NEPA) (42 U.S.C. § 4321 et seq.). In 2009, Sonoma County Water Agency, as the lead agency under the California Environmental Quality Act (CEQA) (Pub. Resources Code, § 21000 et seq.), certified an EIR/EIS for the Project. The District, as a responsible agency under CEQA, has prepared the Addendum to address minor changes in the alignment of the distribution facilities examined in the EIR/EIS. The CSLC is a trustee agency for projects that could directly or indirectly affect sovereign lands and their accompanying Public Trust resources or uses. Additionally, because the Project involves work on sovereign lands, the CSLC will act as a responsible agency. A-1

CSLC Jurisdiction and Public Trust Lands

The CSLC has jurisdiction and management authority over all ungranted tidelands, submerged lands, and the beds of navigable lakes and waterways. The CSLC also has certain residual and review authority for tidelands and submerged lands legislatively granted in trust to local jurisdictions (Pub. Resources Code, §§ 6301, 6306). All tidelands and submerged lands, granted or ungranted, as well as navigable lakes and waterways, are subject to the protections of the Common Law Public Trust.

As general background, the State of California acquired sovereign ownership of all tidelands and submerged lands and beds of navigable lakes and waterways upon its admission to the United States in 1850. The State holds these lands for the benefit of all people of the State for statewide Public Trust purposes, which include but are not limited to waterborne commerce, navigation, fisheries, water-related recreation, habitat preservation, and open space. On tidal waterways, the State's sovereign fee ownership extends landward to the mean high tide line, except for areas of fill or artificial accretion or where the boundary has been fixed by agreement or a court. Such boundaries may not be readily apparent from present day site inspections.

After reviewing the information contained in the Addendum, CSLC staff has determined that the Project includes State-owned sovereign land in Novato Creek at the Rowland Way crossing. Therefore, a lease from the CSLC will be required to implement the Project on sovereign lands. Please contact Al Franzoia (see contact information below) with any questions regarding CSLC leasing jurisdiction. A-1

This determination is without prejudice to any future assertion of State ownership or public rights, should circumstances change, or should additional information come to our attention. This letter is not intended, nor should it be construed as, a waiver or limitation of any right, title, or interest of the State of California in any lands under its jurisdiction.

Project Description

The District proposes to re-route portions of the recycled water pipeline system to meet its objective to support sustainability and environmental enhancements by expanding the use of recycled water.

From the Project Description, CSLC staff understands that the Project would include the following Project changes:

- Rerouting of the proposed pipeline. The pipeline would be rerouted from the Novato Sanitary District Recycled Water Facility to the Vintage Oaks Shopping Center. This change would include a crossing over Novato Creek. A-2
- Bridge Suspension. The crossing over Novato Creek would use bridge suspension technology. The pipeline would be installed in the structural supports underneath or on the sides of the Rowland Way Bridge over Novato Creek and would not require work within the riparian corridor or streambanks.

Environmental Review

CSLC staff requests that the District consider the following comments on the Project's Addendum.

Biological Resources A-3

1. Nesting Birds and Bridges: The Addendum mentions potential impacts to nesting birds from construction activities on roadways or in habitat areas, but does not

discuss whether birds are known to nest on the Rowland Way crossing of Novato Creek. Please clarify whether birds nest on the bridge over Novato Creek and if so, discuss whether any of the events identified in section 21166 of CEQA would apply, requiring preparation of a supplemental or subsequent document instead of an addendum. A-3

Thank you for the opportunity to comment on the Addendum for the Project. As a responsible and trustee agency, the CSLC will need to rely on the Addendum and EIR/EIS for the issuance of any new lease as specified above, or on a supplemental or subsequent document if CEQA section 21166 applies. Therefore, we request that you consider our comments prior to approval of the Addendum.

Please send copies of future Project-related documents, including electronic copies of the Final EIR/EIS, Addendum (or supplemental/subsequent document), Mitigation Monitoring and Reporting Program (MMRP), Notice of Determination (NOD), CEQA Findings and, if applicable, Statement of Overriding Considerations when they become available, and refer questions concerning environmental review to Holly Wyer, Environmental Scientist, at (916) 574-2399 or via e-mail at Holly.Wyer@slc.ca.gov. For questions concerning CSLC leasing jurisdiction, please contact Al Franzoia, Public Land Management Specialist, at (916) 574-0992, or via email at Al.Franzoia@slc.ca.gov. A-4

Sincerely,

Cy R. Oggins, Chief
Division of Environmental Planning
and Management

cc: Office of Planning and Research
H. Wyer, CSLC
A. Franzoia, CSLC
J. Rader, CSLC

Response to Letter A. California State Lands Commission, Cy Oggins

Response to Comment A-1: The commenter indicates that the proposed project includes State-owned sovereign land in Novato Creek and at the Rowland Way crossing. Therefore, a lease from the California State Lands Commission would be required to implement the proposed project. As a result of this comment the following text was added on page 1-8 after the 8th bullet point:

> 9. California State Lands Commission lease for State-owned sovereign land.

The first paragraph under the heading 1.10.1, *Other Agencies*, on page 1-8 has been revised as follows:

> Other agencies beyond the NBWRA Member Agencies and cooperating agencies with authority over the Proposed Action may include, but are not limited to, the following: USACE, USFWS, National Oceanic and Atmospheric Administration, National Marine Fisheries Service (NMFS), California Department of Fish and Wildlife (CDFW), SWRCB, San Francisco Bay Regional Water Quality Control Board (SFRWQCB), California State Lands Commission, SHPO, California Department of Health Services, and Bay Area Air Quality Management District (BAAQMD).

Response to Comment A-2: This comment is noted. The commenters understanding of the proposed project is correct.

Response to Comment A-3: Consistent with the EIR/EIS, special status marsh birds, raptors, and nesting birds may be present within the project area and could be affected by construction during nesting season. Furthermore, bridges within the project area have potential to support mud building nesting birds such as black phoebe (*Sayornis nigricans*). However, the modification of distribution pipelines in the Novato Sanitary District area under the proposed project would not increase effects to protected birds, and effects would be consistent with those identified in the EIR/EIS. **Mitigation Measure 3.5.7** would require protocol-level surveys, environmental awareness training specific to the identification of clapper rails, black rails, western snowy plover and their habitat, and limit construction activities to the non-breeding season. **Mitigation Measure 3.5.9** would require vegetation to be removed during the non-breeding season, and for ground disturbing activities occurring during the breeding season, a qualified wildlife biologist will conduct preconstruction surveys of all potential nesting habitats for birds within 500 feet of earthmoving activities. Implementation of EIR/EIS **Mitigation Measure 3.5.7** and **Mitigation Measure 3.5.9** would reduce potential effects during the nesting period.

Response to Comment A-4: This comment is acknowledged. The NMWD will coordinate with the California State Lands Commission throughout the environmental review process and will provide all requested documentation.

Commenter Letter B

STATE OF CALIFORNIA—CALIFORNIA STATE TRANSPORTATION AGENCY CLEAR EDMUND G. BROWN Jr., Governor

8-28-15
E

DEPARTMENT OF TRANSPORTATION
DISTRICT 4
P.O. BOX 23660
OAKLAND, CA 94623-0660
PHONE (510) 286-5528
FAX (510) 286-5559
TTY 711
www.dot.ca.gov

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August 28, 2015

BAG0020
MRN-101-19/R22
SCH# 2008072096

Mr. Drew McIntyre
North Marin Water District
999 Rush Creek Place
Novato, CA 94945

North Bay Water Recycling Program – North Marin Water District – Novato Central Service Area Project Draft Supplemental Environmental Assessment and Addendum to the Environmental Impact Report

Dear Mr. McIntyre:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the project referenced above. Caltrans' new mission, vision, and goals signal a modernization of our approach to California's transportation system. We reviewed this project for alignment with sustainability/livability/economy and safety/health values. Our comments seek to promote the State's smart mobility goals that support a vibrant economy and build active communities rather than sprawl. They are based on the Draft Supplemental Environmental Assessment to the Environmental Impact Statement and Addendum to the Environmental Impact Report. Additional comments may be forthcoming pending final review.

Project Understanding

The proposed project would be implemented as Phase 1 under the approved North Bay Water Recycling Program (NBWRP). Phase 1 would include the construction of a recycled water distribution system from the Novato Sanitation District Waste Water Treatment Plant (WWTP) south to Vintage Way and the Vintage Oaks Shopping Center, and across US 101 to serve urban users west of the highway. B-1

The proposed project would install an 18-inch pipeline from Novato's Sanitation District's WWTP, within an existing utility easement, along Davidson Street to its intersection with Louis Drive via an 'open cut trench' method. Via 'jack and bore' or 'horizontal directional drill' methods, the pipeline would then extend through Louis Drive, Slade Park and under the Sonoma Marin Area Rapid Transit (SMART) railroad Right-of-Way (ROW). The pipeline would then extend along Rowland Way and Vintage Way, and would cross US 101 from Vintage Way (nearest street address is 216 Vintage Way) to Redwood Boulevard (nearest address is 1 Corinthian Court) via

the 'horizontal directional drill' method. From Redwood Boulevard, pipeline would be installed trending north towards its intersection with Rowland Boulevard; and south towards Entrada Drive via Redwood Boulevard, Novato Boulevard, and within Caltrans bike path ROW.

In addition, construction of the proposed action would begin March 2016 and is estimated to take about 10 months. Construction would occur from Monday through Friday from 7:00 a.m. to 6:00 p.m for uniformity with City of Novato's municipal code. The planned construction time outlined in Section 2.2 is inconsistent with Mitigation Measure 3.7.1b (1) that states that hours of construction will be between 8:00 a.m. and 7:00 p.m. Of the four staging areas the location near the Novato Boulevard and Entrada Drive intersection lies within Caltrans bike path ROW. B-1

Transportation Impacts

During construction, this project may generate traffic at volumes sufficient to impact the operations of US 101 and adjacent Caltrans bike facilities. Please consider the comments we have provided below in order to mitigate these traffic impacts.

- Mitigation Measure 3.7.1b states that the construction contractor for each project component shall prepare and implement a Traffic Control/ Traffic Management Plan subject to approval by the appropriate local jurisdiction prior to construction. Caltrans would like to review and confirm that this plan was prepared in alignment with our guidelines listed in the California Manual on Uniform Traffic Control Devices (MUTCD), which can be found at: http://www.dot.ca.gov/hq/traffops/engineering/mutcd/pdf/camutcd2014/Part6.pdf; B-2

- Mitigation Measure 3.7.1b (1) indicates that the hours of construction will be between 8:00 a.m. and 7:00 p.m.; and no construction will be permitted between 10:00 p.m. and 7:00 a.m. However, based on the traffic data on US 101 in the proposed project area, any construction closures should not be allowed during peak a.m. and p.m. commute periods. Please note that any construction activities performed within State ROW, must have proposed hours of construction work reviewed and concurred by Caltrans; and B-3

- Passage through the Caltrans bike path ROW or alternate route should be ensured for path users during construction. This should be addressed in the Transportation Mitigation Measures outlined in Section 3.7 of the environmental document. B-4

Hydrology

The location and layout of project pipelines should not in any way impede or interfere with the operation of existing Departmental drainage facilities. B-5

Cultural Resources

Should ground-disturbing activities take place as part of this project within State ROW and there is an inadvertent archaeological or burial discovery, in compliance with CEQA, PRC 5024.5, and B-6

Commenter Letter B

Caltrans Standard Environmental Reference Chapter 2 (at http://ser.dot.ca.gov), all construction within 50 feet of the find shall cease. The Caltrans Office of Cultural Resource Studies (OCRS), District 4, shall be immediately contacted at (510) 286-5618. A staff archaeologist will evaluate the finds within one business day after contact. B-6

Encroachment Permit
Please be advised that any work or traffic control that encroaches onto the State ROW requires an encroachment permit that is issued by Caltrans. To apply, a completed encroachment permit application, environmental documentation, and five (5) sets of plans clearly indicating State ROW must be submitted to the following address: David Salladay, District Office Chief, Office of Permits, California Department of Transportation, District 4, P.O. Box 23660, Oakland, CA 94623-0660. Traffic-related mitigation measures should be incorporated into the construction plans prior to the encroachment permit process. See the website linked below for more information: B-7

http://www.dot.ca.gov/hq/traffops/developserv/permits

Transportation Permit
Project work that requires movement of oversized or excessive load vehicles on State roadways requires a transportation permit that is issued by Caltrans. To apply, a completed transportation permit application with the determined specific route(s) for the shipper to follow from origin to destination must be submitted to: Caltrans Transportation Permits Office, 1823 14th Street, Sacramento, CA 95811-7119. See the following website for more information: B-8

http://www.dot.ca.gov/hq/traffops/permits

Should you have any questions regarding this letter or require additional information, please contact Cole Iwamasa at (510) 286-5534 or by email at: cole.iwamasa@dot.ca.gov.

Sincerely,

PATRICIA MAURICE
District Branch Chief
Local Development - Intergovernmental Review

c: State Clearinghouse

Commenter Letter B

bc:PMaurice/CIwamasa/ChronFile/PVan/EGestuvo/PCox/SRuiz

Response to Letter B. California Department of Transportation, Patricia Maurice

Response to Comment B-1: The commenters understanding of the proposed project is correct. Construction hours would be in compliance with Mitigation Measure 3.7.1b and will be agreed upon by the local encroachment agency. The NMWD will continue to coordinate with Caltrans throughout the environmental review process.

Response to Comment B-2: As a result of this comment the following text was added on page 3-22 after the 9th bullet point of **Mitigation Measure 3.7.1b**:

> 10. Be prepared in compliance with the California Manual on Uniform Traffic Control Devices an and reviewed by Caltrans.

Response to Comment B-3: Traffic impacts within the Caltrans rights-of-way (ROW) would be limited to the Caltrans bike path ROW. The proposed project would require temporary closures of Caltrans bike path ROW. The EA/Addendum identifies **Mitigation Measure 3.13.1a** to reduce the potential impacts of temporary closures of bikeways during construction. As mentioned above the Traffic Control/Traffic Management Plan would be available for Caltrans review.

Response to Comment B-4: As noted in the Section 3.13, *Recreation,* the proposed project could require temporary closures of bikeways during construction. However, impacts would be reduced through identification of detour routes for the bikeways and trails during construction, as required by EIR/EIS **Mitigation Measure 3.13.1a.** The second paragraph on page 3-37 has been revised as follows for clarification.

> Consistent with effects previously discussed, recreational facilities along the alignment that would be affected by temporary closures during construction include bikeways along Novato Boulevard, Rowland Boulevard, Caltrans bike path and Redwood Boulevard. Effects to bikeways would be the same as those described in the ~~EIS/EIS~~EIR/EIS and would be reduced through identification of detour routes for the bikeways and trails during construction, as required by EIR/EIS **Mitigation Measure 3.13-1a**.

Response to Comment B-5: As discussed in Section 3.2, *Surface Hydrology,* post project conditions would be integrated with existing drainage systems that would be designed to avoid or further minimize effects to downstream areas and infrastructure. Implementation of EIR/EIS **Mitigation Measure 3.2.3** would ensure that adverse effects associated with stormwater run-off would not occur.

Response to Comment B-6: As discussed in Section 3.12, *Cultural Resources,* EIR/EIS **Mitigation Measure 3.12.1d** requires the contractor to immediately cease all work activities (within approximately 100 feet of a discovery) if a discovery of items of historical or archaeological interest is made. In response to this comment the following text has been added as clarification to **Mitigation Measure 3.12.1d:**

> **Mitigation Measure 3.12.1d: Inadvertent Discoveries.** If discovery is made of items of historical or archaeological interest, the contractor shall immediately cease all work activities in the area (within approximately 100 feet) of discovery. Prehistoric archaeological materials might include obsidian and chert flaked-stone tools (e.g., projectile points, knives, scrapers) or toolmaking debris; culturally darkened soil ("midden") containing heat-affected rocks, artifacts, or shellfish remains; and stone milling equipment (e.g., mortars, pestles, handstones, or milling slabs); and battered stone tools, such as hammerstones and pitted

stones. Historic-period materials might include stone, concrete, or adobe footings and walls; filled wells or privies; and deposits of metal, glass, and/or ceramic refuse. After cessation of excavation the contractor shall immediately contact the NBWRA and appropriate Member Agency. The contractor shall not resume work until authorization is received from the appropriate Member Agency. If the inadvertent discovery is within State right-of-way, the appropriate Member Agency shall contact the Caltrans Office of Cultural Resource Studies District 4.

Response to Comment B-7: This comment is acknowledged. NMWD has applied for and received an encroachment permit for pipeline installation within the Caltrans bike path on the westerly side of Highway 101 from Enfrente Road to South Novato Boulevard.

Response to Comment B-8: This comment is acknowledged. NMWD will apply for and obtain a transportation permit for activities within Caltrans ROW for the proposed project, as appropriate.

RESOLUTION 15-

RESOLUTION OF THE BOARD OF DIRECTORS OF NORTH MARIN WATER DISTRICT

APPROVAL OF THE CENTRAL SERVICE AREA SUPPLEMENTAL ENVIRONMENTAL ASSESSMENT/ADDENDUM TO THE NORTH BAY WATER RECYCLING PROGRAM EIR/EIS PREPARED FOR THE UNITED STATES BUREAU OF RECLAMATION AND STATE WATER RESOURCES CONTROL BOARD AS PART OF CONSIDERATION OF ISSUANCE OF FUNDING UNDER PUBLIC LAW TITLE XVI AND THE CLEAN WATER STATE REVOLVING FUND PROGRAM, AND FINDING THAT ADDENDUM IS CONSISTENT WITH THE AFORMENTIONED EIR/EIS.

WHEREAS, the North Marin Water District ("District") wishes to expand the beneficial use of recycled water in Marin County and to work cooperatively with other agencies in the North Bay region to promote the conservation of limited surface water and groundwater resources.

WHEREAS, the District, as a Supporting Agency of the North Bay Water Reuse Authority, participated in the preparation of the Draft and Final Environmental Impact Report/ Environmental Impact Statement (EIR/EIS) (SCH# 2008072096) pursuant to the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA), and, as a Responsible Agency under CEQA, approved the Phase 1 Implementation Project on December 15, 2009; and

WHEREAS, the process of finalizing the design of the Central Service Area Project has resulted in minor changes to the pipeline distribution system within the Central Service Area; and

WHEREAS, the Supplemental EA/Addendum is intended to satisfy processing by the United States Bureau of Reclamation under the NEPA pursuant to issuance of funds under the Bureau of Reclamation's Public Law 102-575, Title XVI; and

WHEREAS, implementation of the Phase 1 Implementation Project requires external funding sources; as such the District is pursuing additional funding for a subset of Phase 1 project components under its jurisdiction, through the Clean Water State Revolving Fund (CWSRF) Program. The CSWRF Program, established under the Federal Clean Water Act, is implemented by the United States Environmental Protection Agency, and administered regionally by the California State Water Resources Control Board; and

WHEREAS, the District has submitted CWSRF Application No.8086-110, dated February 12, 2015, to the State Water Resources Control Board for review, and has developed supplemental materials, including a Supplemental EA/Addendum (Exhibit 1), to support State Water Resources Control Board environmental documentation protocol and processing of the application.

NOW THEREFORE BE IT RESOLVED that the North Marin Water District Board of Directors ("Board") finds as follows:

PROCEDURAL FINDINGS:

1. On December 15, 2009, the Board: 1) exercised its independent judgment and analysis, reviewed, and considered the information contained in the Final EIR/EIS for the North Bay Water Recycling Program, and considered the environmental effects and impacts of the project as shown in the EIR/EIS; 2) found that the Final North Bay Water Recycling Program EIR/EIS represents a good faith effort to achieve completeness and full environmental disclosure; and 3) found that the Final North Bay Water Recycling Program EIR/EIS is an adequate informational document, and has provided this Board and the public with full and fair disclosure of potential environmental impacts associated with the project. As part of this action, the Board approved the Phase 1 Implementation Plan, adopted a Mitigation and Monitoring Plan, adopted a Statement of Overriding Considerations, and filed a Notice of Determination.

2. The project components proposed for funding under CWSRF Program, included in CWRSF Application No.8086-110, are described and analyzed at a project-level of detail in the Final North Bay Water Recycling Project EIR/EIS, and minor modifications are analyzed in the EA/Addendum.

3. On August 19, 2015, the District submitted the Supplemental EA/Addendum, as requested, to the U.S. Bureau of Reclamation, and on August 14, 2015 to the State Water Resources Control Board. The Supplemental EA/Addendum was submitted to the State Clearinghouse on August 14, 2011 for processing and a 15-day public review period (August 14, 2015 – August 28, 2015) to satisfy State Water Resources Control Board environmental documentation requirements. Two comments were received on the Supplemental EA/Addendum during the public comment period.

4. The Supplemental EA/Addendum reiterates and clarifies the description of the District's portion of the Phase 1 project potentially eligible for Title XVI and CWSRF Program funding. The Supplemental EA/Addendum provides a project description and project-level analysis specific to the District's CWSRF project components. The Addendum to the North Bay Water Recycling Program EIR/EIS concludes that there are no new or more severe impacts and/or mitigation measures associated with the subset of Phase 1 projects included in the CWSRF Application No. 8086-110 beyond those previously identified in the North Bay Water Recycling Program EIR/EIS.

SUBSTANTIVE FINDINGS

1. The Board finds that the Addendum was prepared in accordance with The Council of Environmental Qualities NEPA Guidelines and CEQA Guidelines Section 15164, which state an addendum may be prepared if some changes or additions are necessary, but do not result in new impacts or a substantial increase in the severity of previously identified impacts, such that a subsequent or supplemental EIR was not required.

2. The Board finds that the conclusions, impact determinations, and mitigation measures are consistent with the Final North Bay Water Recycling Program EIR/EIS.

3. The Board finds that the Supplemental EA/Addendum meets the United States Bureau of Reclamation and State Water Resources Control Board requirements as part of the environmental review process, and has circulated the document for public review.

NOW THEREFORE, based on the record of this proceeding and the foregoing findings and determinations, the Board of Directors of the North Marin Water District does hereby take the following actions:

1. Supplemental EA/Addendum Approval and Consistency Determination. The Board approves the Supplemental EA/Addendum and finds that the conclusions, impact determinations, and mitigation measures are consistent with the Final North Bay Water Recycling Program EIR/EIS.

2. Notice of Determination. The Board authorizes and directs the General Manager, or his assignee, to file a Notice of Determination with the County Clerk and the State Clearinghouse in accordance with the procedural requirements of the State Water Resources Control Board.

3. Custodian of Documents. The Board is the custodian of the documents and other materials that constitute the record of proceedings upon which this Board's decision herein is based. These documents may be found at North Marin Water District, 999 Rush Creek Place, Novato, CA 94945.

* * * * *

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 15th day of September 2015 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____

Katie Young, Secretary
North Marin Water District

Notice of Determination

TO:

☒ Office of Planning and Research
For U.S. Mail: P.O. Box 3044, Sacramento, CA 95812-3044
Street Address: 1400 Tenth Street, Sacramento, CA 95814

☒ County Clerk
County of: Marin
Address: 3501 Civic Center Drive Room 247
San Rafael, CA 94903

FROM:

Public Agency: North Marin Water District
Address: 999 Rush Creek Place
Novato, CA 94945
Contact: Drew McIntyre
Phone: 415.761.8912
Lead Agency (if different from above):
Address:
Contact:
Phone:

SUBJECT: Filing of Notice of Determination in compliance with Section 21108 or 21152 of the Public Resources Code.

State Clearinghouse Number (if submitted to State Clearinghouse): 2008072096

Project Title: North Bay Water Recycling Program NMWD Recycled Water Expansion Project – Central Service Area

Project Location (include county): Marin County

Project Description: Under the approved North Bay Water Recycling Program the Proposed Action was included in the Phase 1 Implementation Plan (Phase 1 project) as the Recycled Water System Expansion Project, in which Novato Sanitary District (SD) and North Marin Water District would implement service in the Novato Central Service Area through construction of a recycled water distribution system from the Novato SD Waste Water Treatment Plant south to Rowland Boulevard and the Vintage Oaks shopping center, and across Highway 101 to serve urban users west of Highway 101. The process of finalizing the design of the Central Service Area segment of the Recycled Water Expansion Project has resulted in minor changes to the approved Phase I pipeline distribution system alignment: re-route pipeline from Novato SD Recycled Water Facility to the Vintage Oaks shopping center; move Highway 101 Crossing; extend distribution pipeline to connect to an existing surplus tank and serve existing customers on Ignacio Boulevard; and eliminate the 18-inch recycled trunk line to serve Novato High School.

This is to advise that the North Marin Water District Board of Directors has approved the above described project on
(☐ *Lead Agency* or ☒ *Responsible Agency*)

September 15, 2015 and has made the following determinations regarding the above described projects.
(*Date*)

1. The project [☐ will ☒ will not] have any new or more severe significant adverse effects on the environment above and beyond those identified and analyzed in the original Environmental Impact Report.
2. ☒ An Addendum to a previously certified and approved Environmental Impact Report was prepared for this project pursuant to the provisions of CEQA.
   ☐ An Environmental Impact Report was prepared for this project pursuant to the provisions of CEQA.
   ☐ A Negative Declaration was prepared for this project pursuant to the provisions of CEQA.
3. New mitigation measures above and beyond those adopted as part of the original project approval [☐ were ☒ were not] made as a condition of this determination. Mitigation measures previously adopted are incorporated into the proposed project.
4. As part of the original EIR approval, a mitigation reporting or monitoring plan was adopted, and [☒ is ☐ is not] incorporated in the Addendum adopted for this project.
5. A statement of Overriding Considerations [☐ was ☒ was not] adopted for this project. A statement of Overriding Considerations was adopted previously as part of the original EIR certification and approval.

ATTACHMENT 3

6. Findings [☐ were ☒ were not] made pursuant to the provisions of CEQA. CEQA does not require Findings of Fact for an Addendum; however the NMWD Board adopted a finding that the conclusions of the Addendum are consistent with the original EIR.

This is to certify that the final Addendum, or the EIR with comments and responses and record of project approval, or the Negative Declaration, is available to the General Public at:

999 Rush Creek Place, Novato, CA 94945

Signature (Public Agency) _____ Title: _____

Date: _____ Date Received filing at OPR: _____

10

ITEM #10

MEMORANDUM

To: Board of Directors September 11, 2015

From: Chris DeGabriele, General Manager CD

Subj: Marin LAFCO Countywide Water Service Study – NMWD Comments
I:\gm\lafco\memo to bod re countywide water study comments.docx

RECOMMENDED ACTION: Board approve sending comments to Marin LAFCO on their Countywide Water Service Study

FINANCIAL IMPACT: None at this time

At the August 4th meeting the Board received the Draft Executive Summary from the Marin LAFCO Countywide Water Study (Study, Attachment 1). The Board was informed that Marin LAFCO would unveil the Study at their August 13th meeting, with the understanding that comments would be received at the meeting and its consideration would continue to the Marin LAFCO September 10th meeting, prior to the Study release for formal public review. The full Study can be found at the following link: http://www.marinlafco.org/PDF/special-studies/Water%20Study%20Draft%20Report%2008-13-15.pdf.

NMWD staff has had an opportunity to comment on the Agency Profiles included in the Study and prepared by Marin LAFCO for NMWD's Novato and West Marin Service Areas over the past 18 months. NMWD staff has provided data as requested to Marin LAFCO to support the Study and made extensive comments on the Agency Profiles, the LAFCO study reflects their independent projections of population, water demand and water supply and do not match data provided by or calculated by NMWD.

Since the recommendations and determinations included in the study are just now available, it has taken staff time to completely review and prepare these comments (Attachment 2). The Determinations appeared to be principally data driven and it's my estimation that reconciliation with NMWD data projections is likely too time consuming to take on and would have limited benefit. In review of the recommendations, NMWD staff has coordinated with other Marin water providers so that we hopefully have a common thread in our response. Unfortunately I was unable to get the NMWD comment letter prepared in advance of the LAFCO September 10th meeting. I have however made verbal comments to Marin LAFCO and now request the Board authorize sending the comments to Marin LAFCO.

RECOMMENDATION:

The Board approve sending NMWD comments on the Marin LAFCO Countywide Water Service Study.

DRAFT

CHAPTER TWO
EXECUTIVE SUMMARY

2.1 OVERVIEW

A. Study Purpose

This study represents Marin LAFCO's scheduled countywide municipal service review on water service that has been prepared by staff consistent with the scope of work approved by the Commission. The underlying aim of the study is to produce an independent assessment of public water service in Marin County over the next 10 years relative to the Commission's regional growth management duties and responsibilities with particular focus on *potable* retail services (emphasis). This includes evaluating the current and future relationship between supply and demand countywide and within the service areas of the six affected agencies subject to the Commission's oversight. Information generated as part of the study will be directly used by the Commission in (a) guiding subsequent sphere of influence updates, (b) informing future boundary changes, and (c) engendering possible government reorganizations, such as special district formations, consolidations, and/or dissolutions.

> The underlying purpose of the study is to independently assess the relationship between countywide supplies and demands for public water services relative to the Commission's regional growth management duties. The study central focus is potable water service over the next 10 years. Information generated in the study will inform future actions by the Commission with respect to sphere of influence updates, boundary changes, and possible reorganizations.

B. Study Organization

This chapter serves as the Executive Summary and outlines the key conclusions and findings generated within the study. This includes addressing the mandatory service and governance factors required by the Legislature anytime the Commission performs a municipal service review. The Executive Summary is preceded by a review of key countywide service characteristics (Chapter Three) underlying potable water services. This includes providing regional and agency comparisons with respect to demographics, supplies, demands, and costs now and going forward. The third and final section involves individual agency profiles (Chapter Four) of all six affected public service providers responsible for providing retail potable water under the Commission's jurisdiction in Marin County. These profiles transition between narrative descriptions of the historical background and development of these agencies' service areas to quantifying specific data-driven categories, such as population and growth trends, water service capacities, and financial standing. Supplemental information on recycled water supplies, private water service providers, and watersheds is provided as appendices.

Two important premises underlie the preparation of the study and as consequence influence the resulting conclusions and findings. First and foremost the study is premised on the Commission conducting its own analysis as directed by the Legislature. This means the study generates independent projections ranging from population counts to water supply/demand ratios that do not necessarily match the estimates of other agencies. The Commission believes these distinctions are appropriate and ultimately contributes to the greater public policy discussion given the study is purposefully prepared as a municipal service review compared to the purpose of other planning documents, such as urban water management plans. Second, the study's analysis draws on data from 2009 to 2013 in making projections going forward over the next 10 years. The Commission believes this five-year window serves as an appropriately sized sample to assess near-term supply-to-demand relationships with the qualifier that regression analysis has been applied to avoid influences of outliers.

> Two important premises underlie the study: (a) the Commission has prepared its own projections that do not necessarily match estimates from other agencies and (b) the related findings draw on information collected between 2009 and 2013 and vetted through LAFCO's own regression analysis.

C. Affected Public Agencies

The study examines the services provided by the six public agencies directly providing retail potable water services in Marin County.[6] These six affected agencies are divided by region and listed below.

West Marin Agencies	East Marin Agencies
Bolinas Community Public Utility District	Marin Municipal Water District *
Inverness Public Utility District	North Marin Water District *
Muir Beach Community Services District	- Novato System
Stinson Beach County Water District	- Point Reyes Station System

* All six public agencies provide retail potable water services. Marin Municipal Water District and North Marin Water District also provide retail non-potable water services within limited portions of their service areas. An overview of these non-potable services is provided as an appendix.

D. Study Review Opportunities

Consistent with the approved scope of work this study has been prepared with an emphasis in soliciting outside public review and comment as well as multiple opportunities for input from the affected agencies. These efforts are summarized below.

- LAFCO staff appeared before all affected agencies' governing bodies at public meetings prior to the initiation of the study to discuss the scope of work and possible outcomes byway of the Legislature's direction (i.e., sphere of influence amendments, boundary changes, and formations and/or consolidations).

[6] Consistent with the Commission's approved scope of work the study incorporates the wholesale non-potable services provided by the Las Gallinas Valley Sanitary District and the Novato Sanitary District. Both of these agencies provide wholesale non-potable supplies to Marin Municipal Water District and North Marin Water District and the affected services are incorporated into the reviews of the retail providers.

- Administrative copies of all agencies profiles with focus on technical data were provided to the affected agencies for their internal review. Comments received from the agencies were incorporated into completed draft profiles.

- Draft profiles on all agencies were presented to the Commission by region (West and East) for initial discussion and feedback at noticed public hearings and then circulated out for review and comment for a minimum of 60 days.

- Copies of the draft profiles were posted on the LAFCO website.

- LAFCO staff appeared before several city/town councils to invite public review and comment. Presentations were made to Corte Madera, Novato, San Rafael, Fairfax, and Mill Valley as well as the County of Marin Board of Supervisors. Presentations on the study were also made to Marin County's League of Women Voters, Marin Coalition, and Marin Conservation League.

2.2 STUDY SUMMARY

A. General Conclusions

The six affected agencies organized to provide public water service directly effect nearly every resident in Marin County. This relationship is marked by the six agencies' water systems collectively serving an estimated 256,230 total residents within their seven service areas that accounts for 98% of the entire countywide population as of the term of this study.[7] The relationship also helps to explain the relatively high engagement existing between the agencies and their constituencies, and it produces governing boards largely responsive to community needs with no obvious discord; needs that nevertheless vary due to regional and subregional distinctions in social and economic interests.

This study identifies twelve central themes or takeaways underlying the Commission's review of the availability, capacity, and performance of public water services now and going forward relative to the agency's regional growth management duties. These takeaways range in substance from recent usage trends to financial standing and are entirely generated from information detailed in the succeeding sections.

- **Recent Growth Proportionally Higher Among West Marin Agencies**
  Overall resident growth within the six affected agencies' service areas over the five-year review period of this study has been modest with a total estimated change of 0.40%. This change is nonetheless noteworthy given it counters historical trends with the proportional intensity being more than two times greater in West Marin's service areas at 1.00% compared to 0.38% in East Marin's service areas.

[7] The term end of the study is 2013. The six affected agencies – BCPUD, IPUD, MBCSD, SBCWD, MMWD, and NMWD – collectively include seven service areas with NMWD serving two: Novato and Point Reyes Station. There are also an estimated 3,250 residents in Marin County that lie outside the seven areas and dependent on either private water companies and or private groundwater/spring sources. (This estimate does not consider parcels within the seven service areas that have not established connections to the public water systems.)

- **New Growth Will Occur - Albeit Slowly and Less Intense than Others Estimate**
  The six affected agencies are collectively at 90% of their current planned buildout and additional residential growth is expected in the near-term, albeit at measurably less intensities than projected by other regional governing bodies. This includes the Commission estimating six of the seven service areas will collectively add close to 2,000 new residents over the next 10 year period and result in a joint annual growth rate of 0.08% through 2023; a rate that is close to recent changes and five times less than the 0.43% annual projection calculated for the county for the period by the Association of Bay Area Governments (ABAG).[8]

- **Current Buildout Will Add 30,000 New Residents to Public Water Systems**
  The seven service areas are positioned to add an additional 30,000 new residents based on present-day buildout assumptions made by the local land use authorities.[9] These buildout assumptions – which will presumably increase going forward given the State's legislative intent to facilitate housing opportunities – would result in a net increase of 11.5% (or 4,166 acre-feet) in annual demands over current year-end averages, and further stress systems already projected with deficits in single-dry year conditions.

- **Regional Factors Are Influencing Public Water Systems Differently**
  There are substantive demographic and related distinctions existing between East and West Marin's service areas that have pronounced and different influences on their respective water systems now and going forward. Examples follow.

  - Residency type within the two regions is significantly different with part-time or non-owner residents making up more than 50% of the combined population within West Marin's five service areas compared to only 20% in East Marin's two service areas. This distinction helps explain why peak-day ratios (i.e., the difference between average day-use and single highest day-use) in West Marin are 25% above East Marin, and as a result the former service areas have proportionally greater system stress in accommodating high-usage periods.[10]

  - Recent census data shows stark and growing differences between East and West Marin's service areas with the latter being significantly older and having lower household incomes compared to the former.[11] These differences – which are also reflected in increasingly higher unemployment in West Marin despite having a greater share of residents falling within the prime working age (25 to 64) – suggest increasing challenges for the West Marin agencies in funding water operations and improvements over the long-run.

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8 No new residential growth is expected within the next 10 years in BCPUD's service area due to the ongoing moratorium on new water service connections.

9 The 12 land use authorities (County of Marin and the 11 cities in Marin County) collectively contemplate up to 8,810 new housing units – producing a projected 28,728 additional residents – may be constructed in the seven service areas at buildout based on current land use policies.

10 Peak-day ratios over the five-year period reviewed in this study show West Marin's five service areas averaged 2.0 compared to 1.6 in East Marin's two service areas.

11 The median age within the five West Marin service areas is 53.5 and is nearly one-fourth higher than the median age of 43.9 within the two East Marin service areas. (This separation is also increasing with the median age rising by 6.9% over the prior five-year period in West Marin compared to only 0.7% in East Marin.) A similar separation exists with respect to median household incomes with West Marin's five service areas averaging $71,000 compared to $93,000 in East Marin's two service areas.

- Differences in the affected agencies' economies of scale helps to explain why the medium rate for potable water in West Marin is $1.28 for every 100 gallons compared to $0.70 for every 100 gallons in East Marin; almost a twofold difference between the regions.

- **Usage for Most Public Water Systems Have Been Intensifying**
  Relative demand – i.e., agency production measured by residents – during the study's five-year term has increased for five of the seven service areas. These increases, which affects BCPUD, IPUD, MBCSD, SBCWD, and NMWD-Novato, have all exceeded the corresponding change in population growth within the respective service areas by no less than threefold and signals usage intensity – and not new development – has been underlying increases in demands. Additionally, and pertinently, this dynamic suggest overall usage trends will likely revert and increase from their most recent decline in 2015 in response to public calls for conservation once the drought is declared over.

- **Supplies Under Normal/Maximum Conditions are in Good Shape**
  Existing potable water supplies are sufficient for all six affected agencies to meet current annual demands within the seven service areas under normal and non-peak conditions now and through the end of this study period in 2023. This sufficiency is marked by noting the individual agency annual demand-to-supply ratios range from a low of 15.1% for IPUD to a high of 76.3% for BCPUD with minimal changes for any expected over the next 10 year period. Individual agency peak-day demand-to-supply ratios are generally much higher but remain well within capacity for most of the agencies with the lone exception of BCPUD, which currently tallies 82.7% and expected to rise to capacity at 96.4% by 2023.

- **Supplies Under Projected 1976/77 Conditions Create System Stress**
  Projected single dry-year conditions paralleling 1976/77 show moderate to significant system stresses for five of the seven service areas based on current and/or projected demands through 2023. The agencies with one or more supply deficits under single dry-year conditions are BCPUD, MBCSD, SBCWD, MMWD, and NMWD-Novato. The agencies with the most substantive deficit demand-to-supply ratios are BCPUD and MMWD with both having shortages in all four demand-to-supply categories measured by the Commission.

- **Treatment Capacities are Sufficient With Some Exceptions**
  Nearly all of the affected agencies have existing treatment capacities and/or contracts therein to accommodate their five-year average peak-day demands within their respective service areas. The lone immediate exception involves BCPUD whose average peak-day demand equals 103% of the agency's maximum daily treatment capacity and is on pace to reach 107% by 2023. Two other agencies – IPUD and SBCWD – are projected to have their peak-day demands reach their respective daily treatment capacity by 2023.

- **Storage Capacities are Sufficient**
  All six affected agencies have existing storage capacities to accommodate their current five-year average peak-day demands within their respective service areas and all have at least 50% additional capacity with minimal changes expected over the next 10 years; all of which helps to mitigate against any treatment shortfalls. However, and while not explicit deficit, it is pertinent to note three of the seven service areas have less than three days of potable storage capacity to meet continuous peak-day demands – such as a summer-time fire incident – without recharge. The agencies with less than three days of continuous peak-demand storage are NMWD-Point Reyes at 2.2, MMWD at 2.3, and NMWD-Novato at 2.4.

- **Current Drought Does Not Compare to 1976/77 Drought in Marin County**
  The current four-year drought has generated significant and adverse impacts for many communities in California, but not necessarily to date in Marin County. Recent local rainfall totals, markedly, have remained relatively close to historical averages with the notable outlier of 2013 when totals reached only 7.8 inches and fell close to six times below the average tallied over the prior 50 years.[12] Further, rainfall totals have averaged close to one-fourth more each year during the current drought compared to annual averages during the 1976/77 drought.[13] These collective factors affirm utilizing the 1976/77 drought as the benchmark in projecting single dry-year conditions remains appropriate for planning purposes.

- **Near-Term Finances are Good; Long-Term Finances are Mixed**
  All six affected agencies have maintained positive current ratios over the five-year review period and finished at no less than 4 to 1; meaning the agencies at a minimum ended with $4 in current assets for every $1 in short-term liabilities/obligations. This measurement paired with positive ending operating margins of no less than 8.6% show the agencies' water systems have been generally well-funded and void of structural deficits, and as such indicates near-term finances are in good shape. Similar measurements for long-term solvency, however, are mixed and highlighted by three of the six agencies – SBCWD, MMWD, and NMWD – all ending the five-year period with debt-to-net asset ratios approaching 50%; meaning $0.50 of every $1.00 in assets has been financed by debt. All five agencies with pension obligations – BCPUD, IPUD, SBCSD, MMWD, and NMWD – are also underfunded with only one – BCPUD – finishing the most recent reporting period with a funded ratio above 80%

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[12] Average annual rainfall amounts measured at the Mount. Tamalpais station (Kentfield) between 1962 and 2011 totaled 47.6 inches. Annual rainfall amounts over the current 2012-2015 statewide drought totaled 57.5 inches in 2012, 7.8 inches in 2013, and 48.3 inches in 2014.

[13] Average annual rainfall amounts measured at the Mount Tamalpais station near Kentfield during the 1976-77 drought totaled 30.8 inches (20.6 inches in 1976 and 40.9 inches in 1977).

- **Conservation Has Limitations / Additional Supplies are Needed**
  All six affected agencies have been diligent in pursuing conservation savings in their respective service areas with all appropriately focusing on community education and the larger – MMWD and NMWD – offering various rebate programs. And while conservation is the best and most efficient tool to manage demands it would be prudent planning for all agencies to invest resources aimed at developing additional supplies - and in particular potable - by enhancing existing sources and/or establishing new sources; a focus that appears to have been generally deemphasized in recent years. This planning is particularly pertinent given non-potable offset opportunities appears limited for most Marin County lands coupled with the narrowing demand-to-supply ratios for the majority of agencies with most projected to have shortfalls under single dry-year conditions.

B. Recommendations

The following recommendations call for specific action either from the Commission and/or by the affected agencies based on information generated as part of this study and outlined below in order of their placement in Section 2.3 (Written Determinations). Recommendations for Commission action are premised on a subsequent directive from the membership and to be memorialized in the annual work plan.

1. The Commission should proactively work with local agencies – and in particular water, sewer, and fire providers – to develop a definition of "disadvantaged unincorporated community" consistent with SB 244 to ensure an appropriate and equitable level of municipal services is available for qualifying areas.

2. BCPUD should expedite the expansion of its water treatment facility to abate current shortfalls and accommodate current and projected peak-day demands.

3. MMWD should expedite the expansion of potable storage in the Ross Valley service zone to abate existing shortfalls and accommodate current and projected peak-day demands.

4. The Commission recommends the West Marin agencies – BCPUD, IPUD, MBCSD, and NMWD (Point Reyes Station) – jointly invest resources to prepare a water reliability report assessing each system's available supplies under different hydrologic periods based on shared planning assumptions.

5. All six affected agencies should consider pooling their respective resources by region (i.e., West and East) and establish joint procurement processes in securing services and supplies given their combined buying power would presumably produce cost-savings on items of mutual need and benefit.

6. The Commission recommends all six affected agencies make a concerted effort to consider supply enhancements to complement ongoing conservation programs going forward to remain fully accountable to future constituents given new growth will occur.

7. The Commission requests the five mutual water companies that have not responded to date – Nicasio Valley, Vista Grande, Shallow Beach, Duck Cove, and Hamilton – comply with AB 54 and file their service information with LAFCO without further prompting or action by the membership.

8. The Commission should consider directing staff to prepare an addendum to this study with participation from area landowners to evaluate local needs and priorities within Dillon Beach and Nicasio with respect to possible governance and related options under LAFCO law involving water services.

9. BCPUD should provide an update to the public on the status of the agency's moratorium on new water service connections and efforts therein to address the underlying constraints to help – among other items – inform the County of Marin's ability to effectuate planning policies in the area proceeding ahead.

10. MBCSD should engage an outside consultant to prepare audits of the agency's financial statements to attest and, if applicable, identify improvements in the District's fiduciary duty to manage and record its finances consistent with governmental accounting standards.

11. The Commission should incorporate into its pending sphere of influence updates for the affected agencies the policy items marked in this study and include consideration of expansions to account for standing extraterritorial service contracts belonging to MBCSD and NMWD.

12. NMWD and the Commission should collaborate on a boundary change to detach approximately 7,700 acres of unincorporated land from the District that includes Tomales Bay and Marshall. This should include consideration of special legislation to expedite the boundary change and avoid the costs and uncertainties tied holding protest proceedings.

13. The Commission should considering directing staff to prepare an addendum to this study with agency participation to assess the viability of any service and cost efficiencies tied to consolidating MMWD and NMWD. The central objective of the addendum would be to inform the membership, agencies, and general public with respect to the merits/demerits of a potential consolidation and to justify any subsequent actions, including maintain the status quo.

2.3 WRITTEN DETERMINATIONS

The Commission is directed to prepare written determinations to address the multiple governance factors enumerated under G.C. Section 56430 anytime it prepares a municipal service review. These determinations are similar to findings and serve as independent statements based on information collected, analyzed, and presented in this study's subsequent sections. The underlying intent of the determinations is to provide a succinct detailing of all pertinent issues relating to the planning, delivery, and funding of public water services as it relates to the Commission's role and responsibilities. An abridged version of these determinations will be separately prepared for Commission consideration and adoption with the final report.

A. Growth and Population Projections

Regional

1. The Commission estimates there are 256,230 total residents directly served by the six agencies' potable water systems as of the term of this study. It is also estimated the combined service population has modestly increased by 992 or 0.38% over the prior five-year review period.

2. The Commission estimates overall resident growth in the five service areas in West Marin has increased by 1.0% over the last five years and is more than two times greater than the 0.4% growth rate in the two East Marin service areas.

3. It is projected by the Commission recent residential growth trends will largely continue over the succeeding 10-year period and produce a modest overall annual resident change of 0.08% and add 2,002 new persons by 2023 within the six affected agencies' seven service areas.

4. A significant distinction exists between West and East Marin with respect to residency type with part-time or non-owner residents making up more than 50% of the combined population within the former's five service areas compared to 20% in the latter's two service areas. This distinction helps to explain why peak-demands in West Marin are nearly 25% greater in intensity to East Marin.

5. It is anticipated by the Commission for planning purposes a total of 8,810 new housing units – producing a projected 28,728 additional residents – will eventually be constructed within the six affected agencies' seven service areas at buildout based on current land use policies.

6. Current demographic information shows marked differences between East and West Marin with increasing challenges for the latter residents' ability to fund water operations and improvements in the long-run given relative advanced age, low household incomes, and higher poverty rates.

7. Totaled assessed value for the six affected agencies' jurisdictional lands equals $41.7 billion and represents 70% of the countywide valuation total.

8. Population density ratios range from a low of 196 residents for every square mile in SBCWD to a high of 1,255 residents for every square mile in MMWD.

9. The Commission estimates BCPUD is at 89% of the service area's current buildout population with 1,574 residents served by the District's potable water system as of the term of this study. It is reasonable to assume BCPUD's resident population will remain stagnant through 2023 given the existing moratorium on new water service connections. Related statements follow.

   a) BCPUD' fulltime residents are generally at an economic disadvantage compared to countywide averages based on median household income and poverty rate discrepancies. The rate of these discrepancies is also escalating and marked by a significantly one-half increase in the number of persons living under the poverty rate over the last several years.

10. The Commission estimates IPUD is at 87% of the service area's current buildout projection with 1,375 residents served by the District's potable water system as of the term of this study. It is reasonable to assume the annual growth rate will match the preceding five-year period with an overall yearly change of 0.12% and lead to an increase of 17 to 1,391 by 2023. Related statements follow.

    a) IPUD's fulltime residents are significantly older – and getting older – compared to countywide averages. Residents have also experienced a notable decline in economic standing with close to a one-fourth decrease in the median household income along poverty rates more than doubling over the last several years.

11. The Commission estimates MBCSD is at 94% of the service area's current buildout projection with 431 residents served by the District's potable water system as of term of this study. It is reasonable to assume the growth rate will match the preceding five-year period with an overall yearly change of 0.40% and lead to an increase of 19 to 448 by 2023. Related statements follow.

    a) MBCSD's fulltime residents are generally more affluent, homogeneous, and formally educated compared to countywide averages despite similar ages. Further, the rate of the community's affluence is escalating with the median household income having recently increased by two-thirds and now standing nearly double the countywide average.

12. The Commission estimates SBCWD is at 92% of the service area's current buildout projection with 1,957 residents served by the District's potable water system as of the term of this study. It is reasonable to assume the annual growth rate in SBCWD will match the preceding five-year period with an overall yearly change of 0.14% and lead to an increase of 28 to 1,985 by 2023. Related statements follow.

    a) SBCWD's fulltime residents are becoming increasingly older and more homogenous relative to countywide averages. SBCWD's residents have also experienced a sharp decline in economic standing over the last decade with median houseline income declining by over one-fourth.

13. The Commission estimates MMWD is at 89% of the service area's current buildout projection with 186,048 residents served by the District's potable water system as of the term of this study. It is reasonable to assume the growth rate within MMWD will match the preceding five-year period with an overall yearly change of 0.07% and lead to an increase of 2,038 to 187,399 by 2023. Related statements follow.

    a) MMWD's fulltime constituents are aligned with countywide averages with respect to social and economic indicators with the two statistical significant exceptions: District customers have increasingly higher median household incomes and more formal education. A growing economic disparity has also emerged in which overall median incomes have generally remained stagnant while unemployment levels have increased by nearly one-half.

14. The Commission estimates NMWD is at 94% of the service areas' current buildout projection with 64,845 total residents served by the District's two potable water systems as of the term of this study. It is reasonable to assume the growth rates within NMWD and for its two service areas – Novato and Point Reyes Station – will match the preceding five-year period with an overall yearly change of 0.08% and lead to an increase of 587 to 65,432 by 2023. Related statements follow.

    a) NMWD's fulltime residents served by the Novato system are generally statistically aligned with countywide averages with respect to social and economic indicators with the notable exceptions of lower median household incomes and higher unemployment levels.

B. Location and Characteristics of Disadvantaged Unincorporated Communities

Regional

1. Two unincorporated communities in Marin County presently qualify as disadvantaged under the statewide definition according to recent census information: Alto and Marin City. Both communities – whose median incomes fall below 80% of the statewide average and therefore qualify as disadvantaged under the statewide definition – are located in southern Marin County and lie in MMWD with an estimated joint population of 20,680 with over 90% in Marin City.

2. A third unincorporated community – Nicasio in central Marin County – previously qualified as disadvantaged under the statewide definition before slightly exceeding the median household income threshold in the latest census. This community and its estimated population of 100 lies outside of any public water system's sphere of influence and dependent on private groundwater sources.

3. It is reasonable to assume other unincorporated communities in Marin County would qualify as "disadvantaged" upon completion of the Commission's scheduled policy review to establish its own definition as provided under Senate Bill 244 in 2011. The Commission should proactively work with other local agencies – and in particular water, sewer, and fire providers – in developing a definition to meet the legislation's intent to ensure an appropriate and equitable level of municipal services is available for the affected areas.

C. Capacity of Public Facilities and Infrastructure Needs and Deficiencies

Regional

1. The Commission estimates the six affected agencies collectively have sufficient supplies under normal condition with combined access to a maximum annual amount of 119,080 acre-feet. Recent five-year averages show system demands equaling 31% of these estimated supplies.

2. All six affected agencies have positive annual demand-to-supply ratios under normal conditions based on recent five-year averages within their seven service areas ranging from a low of 15% for IPUD to a high of 76% for BCPUD. Minimal changes to these ratios are expected through 2023.

3. The Commission estimates the six affected agencies collectively are at supply capacity under single dry-year conditions with combined access to a maximum annual amount of 37,758 acre-feet of potable water; a net decrease of (68%) compared to normal conditions. Recent five-year averages show demands equaling 98% of these estimated supplies.

4. Two of the six affected agencies – BCPUD and MMWD – have negative annual demand-to-supply ratios under projected single dry-year conditions based on recent five-year averages within their service areas. Two additional agencies – MBCSD and NMWD (Novato) – are expected to reach supply capacity relative to annual demands by 2023.

5. Agency demands have been rising within five of the seven service areas experiencing increases in overall water production over the five-year review period. These agencies are BCPUD, IPUD, MBCSD, SBCWD, and NMWD (Novato).

6. Average daily water use per resident in the two East Marin service areas over the five-year review period has been 128 gallons. This amount is nearly double the average rate of 77 gallons within the five service areas in West Marin.

7. Recent five-year trends show usage intensity occurring for four of the five services areas in West Marin with all experiencing rises in per capita demands that exceed their estimated population change. These West Marin agencies are BCPUD, IPUD, MBCSD, and SBCWD.

8. The Commission projects an overall decrease in potable water demands among the six affected agencies of (3.4%) by 2023; a net savings of (1,268) acre-feet over the baseline year and largely attributed to decreases within MMWD. This projection is also reflected in combined relative demand with the combined per capita daily usage decreasing from 131 to 126 gallons.

9. Irrespective of overall savings, annual demands are expected to increase for four of the seven service areas served by the six affected agencies by collectively 506 acre-feet or 5.0% and involve IPUD, MBCSD, SBCWD and NMWD (Novato). The remaining three service areas served by MMWD, BCPUD, and NMWD (Point Reyes) are expected to experience decrease demands collectively totaling (1,774) acre-feet or (6.4%).

10. The Commission projects the six affected agencies shared average per capita water allowance at current buildout under normal and single dry-year conditions is 373 and 118 gallons, respectively; a difference of (68%).

11. Nearly all six affected agencies have adequate treatment capacity to accommodate peak-day demands within their service areas based on recent averages over the last five-year period. The lone exception is BCPUD with a current demand-to-supply ratio of 102% or (2%). Two additional agencies – IPUD and SBCWD – are projected to approach their treatment capacity limits by 2023.

12. All six affected agencies have adequate storage capacity to accommodate peak-day demands within their service areas based on recent averages over the last five-year period with excess capacity of no less than 50%. Minimal changes in these ratios are expected within the succeeding 10-year period.

Agencies

13. BCPUD's water infrastructure is currently operating with available capacity in supply and storage now and over the next 10-year period under normal conditions. Only treatment capacity is an existing deficit relative to current and projected peak-day demands. Additional deficits emerge now and over the next 10-year period under single dry-year conditions with annual and peak-day demands exceeding available supplies. Ratios follow.

    a) BCPUD's potable supplies under normal conditions operate with available capacity given recent annual average usage within the service area equals 69% of the District's accessible sources. This ratio changes under projected single dry-year conditions to (12%) now and slightly lower to (10%) in 2023.

    b) Annual demands in BCPUD over the five-year review period increased by an equivalent of 2.3% each year. The Commission estimates annual demands over the next 10-year period relative to recent averages will reverse and decrease by (1.0%) each year while per capita uses also declining – albeit less intensely – from 66 to 65 gallons.

    c) The recent five-year average for peak-day demands within BCPUD equals 66% of available daily supplies under normal conditions and rises to a (6%) deficit during projected single dry-year conditions.

    d) The projected maximum daily per capita supply allowance for BCPUD at current buildout of the service area under normal and single dry-year conditions is 84 and 52 gallons, respectively.

    e) BCPUD's treatment capacity is at capacity at 97% in accommodating existing peak-day averages within the service area and will reach (7%) by 2023.

    f) BCPUD's storage capacity is at 27% in accommodating existing peak-day averages within the service area and expected to rise to 28% by 2023. The total number of days current storage capacity can accommodate recent average peak-day demands is 3.7.

14. IPUD's water infrastructure is currently operating with available capacity in all three measured categories – supply, storage, and treatment – now and over the next 10-year period under both normal and single dry-year conditions with only one qualification. This qualification involves IPUD's current treatment capacity, which by 2023 will be closing in on it respective capacity in terms of meeting peak-day demands. Ratios follow.

    a) IPUD's potable supplies under normal conditions operate with available capacity given recent annual average usage within the service area equals 13% of the District's accessible sources. This ratio rises to 52% under projected single dry-year conditions now and to 63% in 2023.

    b) Annual demands in IPUD over the five-year review period increased by an equivalent of 1.7% each year. The Commission estimates annual demands during the next 10-year period relative to recent averages will similarly increase by 0.8% each year while per capita uses will also rise – and more intensely – from 45 to 55 gallons.

    c) The recent five-year average for peak-day demands within IPUD equals 14% of available daily supplies under normal conditions and rises to 30% during projected single dry-year conditions.

    d) The projected maximum daily per capita supply allowance for IPUD at current buildout of the service area under normal and single dry-year conditions is 297 and 77 gallons, respectively.

    e) IPUD's treatment capacity is at 70% in accommodating existing peak-day averages within the service area. The Commission projects this ratio will rise and reach near capacity at 87% by 2023.

    f) IPUD's storage capacity is at 29% in accommodating existing peak-day averages within the service area and expected to rise to 35% by 2023. The total number of days current storage capacity can accommodate recent average peak-day demands is 3.5.

15. MBCSD's water infrastructure is currently operating with available capacity in storage and treatment now and over the next 10-year period under both normal and single dry-year conditions. Supplies under normal conditions are also adequate with respect to annual demands now and through 2023, but are nearing capacity in meeting peak-day demands. Supplies under single dry-year conditions are measurably more taxed with annual demands approaching capacity over the next 10 year-period while current and projected peak-day demands run significant deficits. Ratios follow.

    a) MBCSD's potable supplies under normal conditions operate with available capacity given recent annual average usage within the service area equals 50% of the District's accessible sources. This ratio rises close to capacity at 81% under projected single dry-year conditions now and to 94% in 2023.

Agencies

b) Annual demands in MBCSD over the five-year review period increased by an equivalent of 1.8% each year. The Commission estimates annual demands during the next 10-year period relative to recent averages will increase by 1.0% while per capita uses will similarly rise from 53 to 59 gallons.

c) The recent five-year average for peak-day demands within MBCSD equals 83% of available daily supplies under normal conditions and rises to a (214%) deficit during projected single dry-year conditions.

d) The projected maximum daily per capita supply allowance for MBCSD at current buildout of the service area under normal and single dry-year conditions is 98 and 61 gallons, respectively.

e) MBCSD's treatment capacity is at 27% in accommodating existing peak-day averages within the service area. The Commission projects this ratio will rise slightly and reach 31% by 2023.

f) MBCSD's storage capacity is at 8% in accommodating existing peak-day averages within the service area and expected to rise to 10% by 2023. The total number of days current storage capacity can accommodate recent average peak-day demands is 11.9.

16. SBCWD's water infrastructure is currently operating with available capacity in supply and storage now and over the next 10-year period under normal conditions. Treatment is the one outlier under normal conditions and is expected to be near capacity by 2023. Capacities under single dry-year conditions now and going forward over the next 10 years generally holds with the exception of peak-day demands significantly exceeding supplies. Ratios follow.

a) SBCWD's potable supplies under normal conditions operate with available capacity given recent annual average usage within the service area equals 13% of the District's accessible sources. This ratio rises to 55% under projected single dry-year conditions now and to 76% by 2023.

b) Annual demands in SBCWD over the five-year review period increased by an equivalent of 1.9% each year. The Commission estimates annual demands during the next 10-year period relative to recent averages will increase by 3.3% while per capita uses will similarly rise from 75 to 102 gallons.

c) The recent five-year average for peak-day demands within SBCWD equals 22% of available daily supplies under normal conditions and rises to near capacity at 91% during projected single dry-year conditions.

d) The projected maximum daily per capita supply allowance for SBCWD at current buildout of the service area under normal and single dry-year conditions is 531 and 125 gallons, respectively.

Agencies

e) SBCWD's treatment capacity is at 63% in accommodating existing peak-day averages within the service area. The Commission projects this ratio will rise and reach near capacity at 87% by 2023.

f) SBCWD's storage capacity is at 21% in accommodating existing peak-day averages within the service area and expected to rise to 29% by 2023. The total number of days current storage capacity can accommodate recent average peak-day demands is 4.9.

17. MMWD's water infrastructure is currently operating with available capacity in all three measured categories – supply, storage, and treatment – now and over the next 10-year period under normal conditions including accommodating peak uses. System stresses specific to supplies emerge under single dry-year conditions when annual demands reach capacity and peak-day usages exceed capacity by more than one-half. Ratios follow.

a) MMWD's potable supplies under normal conditions operate with available capacity given recent annual average usage within the service area equals 28% of the District's accessible sources. This ratio changes under projected single dry-year conditions to an estimated deficit of (2%) now and slightly less to 98% by 2023.

b) Annual demands in MMWD over the five-year review period decreased by an equivalent of (0.3%) each year The Commission estimates MMWD's annual demands during the next 10-year period relative to recent averages will decrease by 0.6% each year while per capita uses will also decline – albeit less intensely – from 127 to 122 gallons.

c) The recent five-year average for peak-day demands within MMWD equals 47% of available daily supplies under normal conditions and rises to a (59%) deficit during projected single dry-year conditions.

d) The projected maximum daily per capita supply allowance for MMWD at current buildout of the service area under normal and single dry-year conditions is 199 and 111 gallons, respectively.

e) MMWD's treatment capacity is at 61% in accommodating existing peak-day averages within the service area. The Commission projects this ratio will slightly adjust to 59% by 2023.

f) MMWD's overall storage capacity is at 44% in accommodating existing peak-day averages within the service area and expected to decrease to 42% by 2023. The total number of days current storage capacity can accommodate recent average peak-day demands is 2.3.

g) Irrespective of the preceding comment, storage improvements are needed in Ross Valley to improve holdings to accommodate this pressure zone's existing and projected peak-day demands.

18. NMWD's water infrastructure for the Novato system is currently operating with available capacity in all three measured categories – supply, storage, and treatment – now and over the next 10-year period under normal conditions including accommodating peak uses. System stresses specific to supplies emerge under single dry-year conditions when annual demands close in on capacity and peak-day usages trigger slight deficits. Ratios follow.

    a) NMWD's potable supplies for the Novato system under normal conditions operate with available capacity given recent annual average usage within the service area equals 41% of the District's accessible sources. This ratio rises close to capacity at 87% projected single dry-year conditions now and to 98% by 2023.

    b) Annual demands in the Novato system over the five-year review period increased by an equivalent of 0.8% each year. The Commission estimates the Novato system's annual demands during the next 10-year period relative to recent averages will increase by 0.4% while per capita uses will also rise – and more intensely – from 130 to 144 gallons.

    c) The recent five-year average for peak-day demands within the Novato system equals 53% of available daily supplies under normal conditions and rises to a (5%) deficit during projected single dry-year conditions.

    d) The projected maximum daily per capita supply allowance for the Novato system at current buildout of the service area under normal and single dry-year conditions is 305 and 142 gallons, respectively.

    e) Treatment capacity for the Novato system is at 57% in accommodating existing peak-day averages within the service area. The Commission projects this ratio will rise to 64% by 2023.

    f) Novato system's storage capacity is at 42% in accommodating existing peak-day averages within the service area and expected to rise to 45% by 2023. The total number of days current storage capacity can accommodate recent average peak-day demands is 2.4.

19. NMWD's water infrastructure for the Point Reyes Station system is currently operating with available capacity in all three measured categories – supply, storage, and treatment – now and over the next 10-year period under both normal and single dry-year conditions. System stresses are minimal. Ratios follow.

    a) NMWD's potable supplies for the Point Reyes Station system under normal conditions operate with available capacity given recent annual average usage within the service area equals 39% of the District's accessible sources. This ratio rises to 45% under projected single dry-year conditions now and slightly less to 44% by 2023.

    b) Annual demands in the Point Reyes Station's system over the five-year review period decreased by an equivalent of (3.1%) each year. The Commission estimates Point Reyes Station's annual demands during the next 10-year

period relative to recent averages will decrease by (0.2%) while per capita uses are also on pace to decline – and more intensely – from 118 to 109 gallons.

c) The recent five-year average for peak-day demands within the Point Reyes Station system equals 78% of available daily supplies under normal conditions and holds during projected single dry-year conditions.

d) The projected maximum daily per capita supply allowance for the Point Reyes Station system at current buildout of the service area under normal and single dry-year conditions is 178 and 153 gallons, respectively.

e) Treatment capacity for the Point Reyes Station system is at treatment capacity is near capacity at 68% in accommodating existing peak-day averages within the service area. The Commission projects this ratio will slightly adjust to 67% by 2023.

f) Point Reyes Station system's storage capacity is at 45% in accommodating existing peak-day averages within the service area and expected to generally hold through 2023. The total number of days current storage capacity can accommodate recent average peak-day demands is 2.2.

D. Agencies' Financial Ability to Provide Services

Regional

1. All six affected agencies experienced moderate to significant gains in their overall financial standing as measured by total net assets or equity during the recent five-year review period. The collective increase in the agencies combined net assets totaled $35.4 million and represents a difference of 9.6%.

2. All six affected agencies finished the five-year review period in generally good position with respect to liquidity and profitability with all finishing with current ratios of no less than 4 to 1 and operating margins that exceed corresponding changes in inflation. Three of the agencies – SCBWD, MMWD, and NMWD – however finished with relatively high debt ratios that approach 50% of their respective net assets.

3. Five of the six affected agencies – BCPUD, IPUD, SBCWD, MMWD, and NMWD – have existing pension obligations through separate contracts with CalPERS. These contracts include mandatory contributions based on annual actuarial reports prepared by CalPERS with the corresponding rates collectively increasing over the most recent five year period (2010-15) by an approximate 20% average.

4. The combined active-to-retiree ratio between the five subject agencies is 0.79 to 1.00; an amount meaning there are approximately four active employees contributing to the pension system for every five retired employees.

5. Four of the five subject agencies – BCPUD, IPUD, SBCWD, and NMWD – with pension have experienced no less than a 13.5% increase in the actual pension costs over the last three available years of documentation (2011-13); a change nearly three times greater than the corresponding inflation rate for the region.

6. Only BCPUD has a funded status above 80% as of the last report issuance by CalPERS; the standard threshold used in governmental accounting to identify relatively stable pension plans.

7. The current average residential cost for potable water service weighted among all seven service areas is $0.78 for every 100 gallons, and translates to an annual cost of $1,175 based on consumption rates over the five-year review period.

8. BCPUD has maintained positive year-end operating balances in four of the five years reviewed with an average net of 25% of revenues over expenses. Trends also are positive with the growth rate of revenues exceeding the growth rate in expenses by more than threefold. Related statements follow.

   a) BCPUD's liquidity is good with current assets outpacing current liabilities at the close of the five-year review period by 3 to 1.

   b) BCPUD's capital is good with low long-term debts equaling only 18% of total net assets at the close of the five-year period.

   c) BCPUD finished the five year-review period with one of the highest unrestricted fund balances relative to service population with a per capita amount of $1,037.

   d) BCPUD's pension obligations is in relatively good shape with a funded ratio (market) at the end of the five-year review period of 81.4%; the highest and best ratio among the five subject agencies.

9. IPUD has maintained positive year-end operating balances in all five years of the five-year reviewed with an average net of 18% of revenues over expenses. Trends also are positive with the growth rate of revenues exceeding the growth rate in expenses by more than twofold. Related statements follow.

   a) IPUD's liquidity is extremely high with current assets outpacing current liabilities at the close of the five-year review period by 227 to 1.

   b) IPUD's capital is good with very low long-term debts equaling only 3% of total net assets at the close of the five-year period.

   c) IPUD finished the five year-review period with a relatively low unrestricted fund balance relative to service population with a per capita amount of $175.

   d) ICPUD's pension obligations are modestly underfunded relative to accounting standards with a funded ratio (market) at the end of the five-year review period of 75%; the second highest and best ratio among the agencies.

Agencies

10. MBCSD has maintained positive year-end operating balances in all five years of the five-year reviewed with an average net of 118% of revenues over expenses. Trends also are positive with the growth rate of revenues exceeding the growth rate in expenses by more than one-tenth. Related statements follow.

    a) MBCSD's liquidity is relatively high with current assets outpacing current liabilities at the close of the five-year review period by 37 to 1.

    b) MBCSD's capital is untouched with no long-term debts booked at the close of the five year-period.

    c) MBCSD finished the five-year review period with a relatively high unrestricted fund balance relative to service population with a per capita amount of $1,761; the highest ratio among the agencies.

    d) MBCSD has no pension obligations.

11. SBCWD has maintained positive year-end operating balances in all five years of the five-year reviewed with an average net of 15% of revenues over expenses. Trends during this period, however, are narrowing with the growth rate of revenues falling short of the growth rate of expenses by one-tenth. Related statements follow.

    a) SBCWD's liquidity is good with current assets outpacing current liabilities at the close of the five-year review period by 5 to 1.

    b) SBCWD's capital is marginal with long-term debts equaling 46% of total net assets at the close of the five-year period.

    c) SBCWD finished the five year-review period with a relatively moderate unrestricted fund balance relative to service population with a per capita amount of $679.

    d) SBCWD's pension obligations are moderately underfunded relative to accounting standards with a funded ratio (market) at the end of the five-year review period of 67%; the lowest ratio among the agencies.

12. MMWD has maintained positive year-end operating balances in all five years of the five-year reviewed with an average net of 8% of revenues over expenses. Trends during this period are also positive with the growth rate of revenues exceeding the growth rate of expenses by over threefold. Related statements follow.

    a) MMWD's liquidity is good with current assets outpacing current liabilities at the close of the five-year review period by 5 to 1.

    b) MMWD's capital is marginal with long-term debts equaling 43% of total net assets at the close of the five-year period.

Agencies

c) MMWD finished the five-year review period with a relatively modest unrestricted fund balance relative to service population with a per capita amount of $209.

d) MMWD's pension obligations are moderately underfunded relative to accounting standards with a funded ratio (market) at the end of the five-year review period of 68%; the second lowest ratio among the agencies.

13. NMWD has experienced negative year-end operating balances in four of the five-year reviewed with an average net loss of (19%) of revenues over expenses. Trends during this period, however, are improving with the growth rate of revenues exceeding the growth rate of expenses by two-fifths. Related statements follow.

    a) NMWD's liquidity is good with current assets outpacing current liabilities at the close of the five-year review period by 4 to 1.

    b) NMWD's capital is marginal with long-term debts equaling 45% of total net assets at the close of the five-year period.

    c) NMWD finished the five-year review period with a relatively modest unrestricted fund balance relative to service population with a per capita amount of $202.

    d) NMWD's pension obligations are moderately underfunded relative to accounting standards with a funded ratio (market) at the end of the five-year review period of 72%.

E. Status and Opportunities for Shared Facilities and Resources

Regional

1. The five agencies serving West Marin have developed an informal network to communicate current and pending activities within their respective service areas and share best practices.

2. The Commission recommends the West Marin agencies jointly invest resources to prepare a water reliability report assessing each system's available supplies under different hydrologic periods based on shared planning assumptions.

3. MMWD and NMWD have effectively partnered with other local agencies in jointly funding and establishing regional recycled water programs as part of the North Bay Water Reuse Authority. This joint-powers provides a mechanism for MMWD and NMWD to pool resources in securing competitive governmental subventions to implement and expand recycled water services in their service areas to help offset potable demands and have generated a combined average savings over the five-year review period of 836 acre-feet.

4. Near-term opportunities for West Marin agencies to partner and/or develop their own recycled water services to offset potable demands is minimal given the lack of current community wastewater collection systems.

5. All six affected agencies have their own procurement processes with respect to purchasing supplies and materials in support of providing potable water services within their respective service areas. Given their relative close proximity, it would seem reasonable and more efficient for the agencies to consider pooling their respective resources by region (i.e., West and East) and establish joint procurement processes given their combined buying power would presumably produce cost-savings on items of mutual need and benefit.

F. Local Accountability and Government Restructure Options

Regional

1. All six affected agencies and their constituents benefit from employing capable and dedicated management that appear to effectively administer day-to-day activities consistent with governing directives and community needs.

2. The general managers and staff for the six affected agencies have shown timely leadership by proactively engaging their boards and constituents on the ongoing status of their water systems in response to the current statewide drought. This includes partnering together in various cross-community forms to discuss and educate the public on the challenges and opportunities tied to the drought and promotion therein of more sustainable land/water use relationships.

3. There is noticeable silence among the majority of the six affected agencies with respect to adding potable supplies to meet future system demands despite most having deficits under single dry-year conditions. While the Commission recognizes conservation is the best and most efficient tool to manage demands it is equally important to consider supplies and enhancement opportunities given its perennial need, value, and – based on history – escalating costs. The Commission, accordingly, recommends the agencies consider supply enhancements in line with ongoing conservation programs going forward to remain fully accountable to future constituents given new growth will occur.

4. As of date only 5 of the 10 identified mutual water companies in Marin County have provided the Commission with service information – including boundary maps – as required under Assembly Bill 54 (2012). The Commission requests the five mutual water companies that have not responded to date – Nicasio Valley, Vista Grande, Shallow Beach, Duck Cove, and Hamilton – comply with this legislative requirement without further prompting.

5. Information collected to date suggest there may be merit for the Commission to explore public water service options for two unincorporated communities: Dillon Beach and Nicasio. Both areas are presently dependent on a combination of mutual water companies and/or private groundwater sources that are generating increasing questions regarding availability and quality. If agreeable the County should direct staff to prepare an informational report with participation from area landowners on these communities' governance and related options therein under LAFCO law for future discussion and possible action.

6. BCPUD has maintained an emergency moratorium on new water service connections since 1971 due to concerns over supply deficiencies that as a consequence has effectively curbed new growth and development. It would be prudent for BCPUD to provide an update to the public on the status of the moratorium and efforts to address the underlying constraints in order – among other factors – to help clarify the ability of the County of Marin to effectuate planning policies within the community proceeding ahead.

7. MBCSD should engage an outside consultant to prepare audits of the agency's financial statements to attest and, if applicable, identify improvements in the District's fiduciary duty to effectively manage its resources consistent with governmental accounting standards.

8. In step with a future sphere of influence update for MBCSD it would be appropriate for the Commission to consider the merits/demerits of expanding the designation to include existing outside service connections located in Frank Valley along Muir Woods Road.

9. A cursory review of reorganization options indicates a more detailed review is appropriate to more clearly assess the merits of a consolidation between MMWD and NMWD with respect to syncing water services along the 101 corridor. If agreeable the Commission should direct staff with agency participation to prepare an informational report assessing the viability of any service and cost efficiencies tied to consolidation with the central objective of informing the membership, agencies, and the public of options – including justification for the baseline.

10. In step with a future sphere of influence update for NMWD it would be appropriate for the Commission to consider all of the following.

    a) NMWD's existing jurisdictional boundary entirely overlaps the jurisdictional boundary of IPUD. This overlap merits correction and the Commission should work with the affected agencies to expedite an appropriate adjustment to both the spheres and boundaries as the membership deems appropriate.

    b) NMWD's potable water services in the Point Reyes Station system extends beyond the agency's sphere and jurisdictional boundary and provides services to several commercial agricultural properties. The Commission should consider the merits/demerits of expanding the sphere and possible annexation of these outside lands to memorize NMWD's existing commitments and provide long-term assurances to the landowners of service availability to support the viability of agricultural production going forward.

    c) NMWD's existing sphere excludes a portion of the District jurisdictional boundary comprising the unincorporated communities of Tomales Bay and Marshall. NMWD provides no services within these lands and has stated there are no plans in the future to initiate any services. Accordingly, it would be appropriate for the Commission to work with NMWD and area landowners to facilitate detachment with the additional consideration of pursuing special legislation to mitigate against the costs and uncertainties tied to going through regular protest proceedings.

d) NMWD's potable water services extends beyond the sphere of influence and into Sonoma County byway of both earlier annexations and outside service contracts. This Commission should consider the merits/demerits of expanding the sphere to recognize these existing service commitments in consultation with Sonoma LAFCO.

DRAFT

August 31, 2015

Keene Simmonds, Executive Officer
Marin Local Agency Formation Commission
555 Northgate Drive Suite 230
San Rafael, CA 94903

Re: Marin LAFCO Countywide Water Service Study – North Marin Water District Comments

Dear Mr. Simmonds:

Thank you for the opportunity to comment on the August 2015 Draft Report of the subject study. NMWD has had an opportunity to comment on the Agency Profiles prepared by Marin LAFCO for NMWD's Novato and West Marin service areas over the past 18 months. Although NMWD staff has provided data as requested to Marin LAFCO and made extensive comments on the Agency Profiles, the subject study reflects LAFCO's independent projections of population, water demand and water supply and do not match data provided and used by NMWD.

We direct Marin LAFCO and the general public to the NMWD information provided previously which does not support the written determinations reflected in the report, specifically Sections **2.3 C.4.**; **2.3 C.18.b.**; **2.3 D.2.,3.,4.**, and **5.**; **2.3 D.12.a)** thru **d)**; **2.3 F.3.**; **2.3 F.9.**; (see also NMWD comment to **Recommendation 13**); and **2.3 H.1.** (see comment also on **Recommendation 14**).

With regard to the **Recommendations** identified in Section **2.2B.** NMWD specific comments follow:

- **4**: NMWD supports a joint Water Reliability Report prepared by the West Marin water agencies assessing each systems available supplies under different hydrologic scenarios based on shared planning assumptions.
- **5**: All Marin water agencies included in this study already work cooperatively

and to some extent pool respective resources by region and have established joint procurement processes, both for materials, supplies and services. NMWD and Marin Municipal have an Interconnection Agreement, participate in the Bay Area Chemical Consortium supply organization, belong to the North Bay Watershed Association, North Bay Water Reuse Authority, Association of California Water Agencies and share information dealing with the regional water wholesaler, Sonoma County Water Agency. Additionally, NMWD has an Emergency Inverness Intertie and Cooperative Services Agreement with Inverness Public Utility District providing for sharing of water supplies, services and manpower as needed.

- **6**: All six affected agencies are currently making a concerted effort towards pursing supply enhancements to complement ongoing conservation programs and remain fully accountable to future customers resulting from new growth. These are reflected in our Urban Water Management Plans, Long Range Capital Improvement Plans, work with the North Bay Watershed Association, North Bay Water Reuse Authority and the Water Advisory Committee of Sonoma County Water Agency.
- **11**: NMWD is interested in Marin LAFCO's consideration to expand our sphere of influence to account for existing NMWD outside service agreements.
- **12**: NMWD does seek a boundary change to detach approximately 7,700 acres of unincorporated land from the District that includes Tomales Bay and Marshall area.
- **13**: Should Marin LAFCO desire to undertake a study considering consolidation of NMWD and Marin Municipal, NMWD would expect to actively

participate in developing the scope of work, consultant selection and the assessment, but has no desire to participate in the cost of such a study since NMWD water ratepayers have not indicated any interest in such a consolidation.

- **14**: This recommendation to explore and discuss the potential to establish community wastewater systems within the West Marin area is entirely out of context in this water service study, should not be included as a recommendation and should not be undertaken. We suggest that any study to explore potential community wastewater systems should be undertaken at the behest of the specific community where onsite wastewater systems are found to cause widespread negative impacts to water quality as reported by Marin County Environmental Health Department, not by Marin LAFCO.

Specific Comments on the other sections of the report follow:

Section 3.2 A.5.0 (Page 57) Overall and Agency Sources/Maximum Daily Per Capita Allowances at Buildout – There is no title or number provided to this chart and NMWD suspects that the data is skewed based on a 5-year anaylsis which is not weather normalized. We recommend Marin LAFCO include a chart for both Novato and West Marin showing gpcd (gallons per capita per day) over a longer term (attached).

Section 3.2 B.1.0. (Page 58) Overall Demands/Current Production Trend – The chart showing Average Water Demands is based on a 5-year average and is not weather normalized.

Section 4.2 East Marin Region, B. North Marin Water District, 6.2 Supplies Supply Reliability (Page 253) - The report states: "Last, though not an immediate issue, NMWD's contract with SCWA is set to expire no later than 2080."

The statement is incorrect. The Restructured Agreement for Water Supply with Sonoma County Water Agency provides that: "the Agency shall enter into renewal

agreements for periods not to exceed 40 years each with any or all of the Water Contractors requesting the same for water supplies within the delivery capabilities of the Agency's Transmission System,..."

Thank you for the opportunity to comment.

Sincerely,

Chris DeGabriele
General Manager

CD/kly

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9/10/15
Novato Gallons/Person/Day
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Population
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30,000
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75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
Fiscal Year

9/9/15
West Marin Gallons/Person/Day
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900
600
300
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150
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90
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30
0
87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
Fiscal Year

11

MEMORANDUM

To: Board of Directors

From: David L. Bentley, Auditor-Controller

Subj: FY15 Residential Consumption Status Report
t:\ac\word\memo\16\sf fy15 residential consumption.docx

September 11, 2015

RECOMMENDED ACTION: Information

FINANCIAL IMPACT: Declining Consumption Reduces Water Revenue

Total Residential Consumption

Residential consumption billed in FY15 was 1,911 MG, down 16% from FY14, and down 29% from the peak year (FY04) (see Attachment A). FY15 saw the lowest residential consumption since FY83, when the Novato population served was 20% less than it is today.

Median Residential Consumption

The Novato median single-family home consumption fell to 87,000 gallons last fiscal year, down 10,000 gallons from FY14. The average over the past 20 years is 120,000 gallons, with a high of 137,000 gallons registered in FY97, and the low of 87,000 registered last year. Of interest, the spread between mean and median consumption is trending downward about 2% annually, down from 22,000 gallons in FY03 (the year before the Conservation Incentive Rate was enacted) to 15,000 gallons last fiscal year (Attachment B). The decrease in the spread between the mean and median reflects the success of the District's rate structure and water conservation programs in reducing demand among high-use residential customers. FY15 median single-family home demand is down 37% 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 average[1] of the past five years median consumption is used to calculate "typical" single-family residential consumption. For Novato, "typical" consumption is now 100,500 gallons, down 7,200 gallons from one year ago. This decrease in water use effectively decreases the annual water cost, as calculated in the Water Cost Comparison for the typical Novato customer, by $35 per year, using current commodity rates.

Conservation Incentive Rate

The Conservation Incentive Rate (CIR) is the surcharge applicable to residential water

[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".

use that first appeared on bills rendered in May 2004. The surcharge adds $7.92/1,000 gallons (177% to the Zone A base rate) to use exceeding 1,845 gallons per day (gpd). In FY03 (the year before the CIR implementation) 510 customers used more than 1,845 gpd in at least one billing period. In FY15 172 customers exceeded the CIR threshold – a 66% reduction. As shown graphically on Attachment C, total water use subject to the CIR fell from 60 MG in FY03 to 12 MG in FY15 – an 80% 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 FY15 use subject to the CIR has fallen 74% (to 0.6%) 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 CITR adds $2.65/1,000 gallons (59% to the Zone A base rate) for use between 615 and 1,845 gpd. Note that the CITR price signal ($2.65) is approximately one third of the CIR price signal ($7.92), therefore a reduced customer response is anticipated, and that is what we see. In FY06 (the year before the CITR implementation) 6,479 residential customers (32%) used water within the CITR range in at least one billing period. In FY15, 3,287 residential customers (17%) were subject to the CITR surcharge – a 49% reduction. Shown graphically on Attachment E, total water use subject to the CITR fell from 278 MG in FY06 (the year before implementation) to 121 MG in FY15 – a 56% reduction.

FY15 water use between 615 and 1,845 gpd as a percentage of total residential water demand has fallen 43% (to 6.4%) 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 FY15 peak residential demand down appreciably. In FY05, 34% of customers peaked between 616 and 1845 gpd. In FY15, that number fell to 17%. Similarly, in FY05 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 and drought-related, the trend is clearly in the right direction.

Attachment A

6/26/15

t:\ac\excel\wtr use\[sf residential.xls]summary

Novato Residential Consumption

Mean & Median Annual Water Use

20-Year History

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Mean	150	157	143	141	150	155	155	154	156	142	136	147	137	133	117	113	114	123	122	102
Median	131	137	124	124	128	133	133	132	135	123	119	129	120	117	103	100	100	108	107	87

Fiscal Year Ending

Attachment B

Attachment C

Attachment D

Attachment E

Attachment F

7/15/15

% of Residential Customer Demand by Tier

FY05 vs FY15

Attachment G

t:\ac\excel\wtr use\[customers by tier 2015.xlsx]chart

12

DISBURSEMENTS - DATED SEPTEMBER 10, 2015

Date Prepared 9/8/15

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

Seq	Payable To	For	Amount
P/R*	Employees	Net Payroll PPE 8/15/15	$127,818.91
EFT*	US Bank	Federal & FICA Taxes PPE 8/31/15	55,266.83
EFT*	State of California	State Taxes & SDI PPE 8/31/15	9,763.07
1	Aldridge, Bobby & Shari	Novato "Washer" Rebate Program	50.00
2	Alpha Analytical Labs	Lab Testing	1,790.00
3	Athens Administrators	Aug Replenish Workers' Comp Account (Venegas) & September Workers' Comp Admin Fee ($1,000)	5,591.98
4	Backflow Distributors	Check Repair Kits (18)	503.39
5	Bedi, Carol	Novato "Cash for Grass" Rebate Program	400.00
6	Belcher, Roy	Novato "Washer" Rebate Program	50.00
7	Blastco	Final Payment - (Retention) Atherton Tank Rehabilitation Project (Total Project Cost $1,358,933)	67,946.65
8	Blustein, Parke	Novato "Toilet" Rebate Program	100.00
9	Brenntag Pacific	Sodium Hydroxide (24,320 lbs) (STP)	4,791.04
10	Buckley, Jordan	Replacement Check - Original "Lost in Mail"	18.75
11	Calif State Parks Marin Sector	Permit Fee for AEEP Dedication on 10/1/15 @ Olompali Park	300.00
12	Calpico	T-Caps	78.48
13	CalPERS Retirement System	Pension Contribution PPE 8/31/15	31,813.01
14		Cafeteria Plan: Uninsured Medical Reimbursement	200.00
15	Cole-Parmer Instrument	Electrode	390.86
16	Crouse, Janice	Replacement Check - Original "Lost in Mail"	35.95

*Prepaid

Seq	Payable To	For	Amount
17	Cummings Trucking	Rock (96 yds)	2,397.64
18	Darbellay, Ron	Novato "Cash for Grass" Rebate Program	400.00
19	Dominican University	Tuition for Leadership Certificate (Arendell) (Fall 2015)	4,150.00
20	Egide, Erik	Novato "Cash for Grass" Rebate Program	400.00
21	Emerald	Refund of RW Load Security Deposit, Less Charge for 2 Recycled Water Loads	90.00
22	Feyh, Laurence	Novato "Cash for Grass" Rebate Program	400.00
23	Frey, Denise	Novato "Cash for Grass" Rebate Program	380.00
24	Galusha, Tim	Novato "Washer" Rebate Program	50.00
25	Ghilotti Construction	Prog Pymt#16: Construct AEEP Reaches A-D/MSN B3 Pipeline Project (Balance Remaining on Contract $57,066)	1,112,973.24
26	Grainger	Led Floodlights (8)	431.38
27	Groeniger	Nipples (5), Couplings (11) ($1,034), Bushings (3), 12" Flange ($147) & 6" Tee ($168)	1,371.71
28	Hach	Bottles (24 - 1 Liter) (STP)	162.77
29	Harper, Donavan & Jessica	Replacement Check - Original "Lost in Mail"	100.00
30	Heon, Janet	Novato "Toilet" Rebate Program	100.00
31	Idexx Laboratories	Colilert Media (6 Mos Supply) (Lab)	1,557.70
32	IDI-Dupont	pH Meter ($1,263), pH Probe ($660) & pH Meter Connector ($632)	2,555.48
33	Jackson, Sharon	Novato "Cash for Grass" Rebate Program	400.00
34	Jim-n-i Rentals	Steel Plate Rental (7/11-8/14) (So Novato Blvd)	681.90
35	Jordan, Bob	Novato "Toilet" Rebate Program	100.00
36	Leighton Stone	Solenoid Valve	471.86
37	Macdonald Architects	Progress Pymt#9: Engineering Services for Lynwood P/S (Balance Remaining on Contract $1,310)	2,689.56

Seq	Payable To	For	Amount
38	Marion Park Associates	Novato "Toilet" Rebate Program	100.00
39	McCoy, Steve & Paulette	Novato "Toilet" Rebate Program	200.00
40	Moens, Claude	Novato "Cash for Grass" Rebate Program	386.00
41	MSC Industrial Supply	2-Way Ball Valves (2)	45.08
42	Namakian, Ahmad	Novato "Toilet" Rebate Program	200.00
43	North Bay Watershed Assoc.	FY 15/16 Dues (Budget $6,310)	6,215.71
44	Novato Disposal Service	August Trash Removal	432.54
45	Novato Sanitary District	June Recycle Water Operating Expense	10,401.18
46	Novato Chamber of Commerce	"Spirit of Marin" Luncheon on 9/25/15 (Bentley)	60.00
47	Pace Supply	Conduits (4), Mule Tape (1,000') ($171), Couplings (39) ($698), Pipe Lubricate (24) ($92), Nipples (7), Elbows (7) ($153), Bushings (3), Ball Valves (10) ($118), Copper Pipe (60') ($952) & Flanges (3)	2,310.52
48	Pape Machinery	Parts to Reseal, Recharge & Test Hydraulic Breaker ($4,383) & Battery Cable ('09 J.D. Backhoe) ($141) (Less Credit of $54)	4,477.92
49	Pera, Janine	Novato "Water Smart Landscape Efficiency" Residential ($100) & "Cash for Grass" Rebate Program ($200)	300.00
50	Peterson Trucks	Tail Lights, Bracket and Grommets & Clear Back-up Lights (4) ($182)	228.58
51	Pini Hardware	Pipe Wrenches (2), Adjustable Wrenches (2), PVC Pipe, Valve, Nozzle Gun (4), Nozzle Stem (6), Screwdriver, Ditch Trench Shovel (4) ($92), Cement PVC (36-8oz) ($208), Misc Hardware, Scale Remover for Drinking Fountains, Torch Starter, Glue, Light Boxes for STP ($45), Conduit Nipples & Hose Filling	506.21
52	Protection Engineering	Primer (24 qts) & Coal Tar Tape (40-6" x 50' rolls) ($1,324)	1,841.66
53	RMC Water & Environment	Progress Pymt#9: Engineering Services RW Project Title 22 Report (Bal Remaining on Contract $47,196)	2,804.00

Seq	Payable To	For	Amount
54	Rosenberg, Kenneth	Novato "Toilet" Rebate UHET Program	150.00
55	San Francisco Estuary Partners	Oversight Services for Vineyard Creek Supplemental Environmental Projects	2,532.86
56	Sebastopol Bearing & Hydraulic	10' Hydraulic Hose Ends & Cover & Assembly Charge ($196), High Pressure Hose Reel ($451) & Hydraulic Hose Fitting	681.47
57	Silva, Chris	Novato "Toilet" Rebate Program	200.00
58	Spezzano, Jill & Charles	Novato "Washer" Rebate Program	50.00
59	Stericycle Transp. Services	Hazardous Waste Disposal for NMWD WQ Lab	352.50
60	Sundborg, Betty	Novato "Washer" Rebate Program	50.00
61	Thatcher of California	Ferric Chloride (10 tons) (STP)	4,208.58
62	Township Building Services	July Janitorial Services	1,822.84
63	United Parcel Service	Delivery Services: Membrane Filters for STP & Returned Incorrect Order of Dilution Water (Lab)	42.45
64	Verizon California	Leased Lines	862.55
65	Verizon Wireless	Cellular Charges: Data ($113) & Airtime ($149) (18)	262.26
66	VWR International	Kimwipes (2,100) (STP)	291.59
67	Watersavers Irrigation	Herbicide (1 gal)	153.85
68	Winzer	Bolts, Washers, Nuts, Wire Terminals & Powdered Absorbent (12-1/2 Gallon Boxes)	384.50
		TOTAL DISBURSEMENTS	**$1,288,478.20**

The foregoing payroll and accounts payable vouchers totaling $1,288,478.20 are hereby approved and authorized for payment.

Doug Betty 9/8/15

Auditor-Controller Date

Chris DeJarnatt 9/8/2015

General Manager Date

DISBURSEMENTS - DATED SEPTEMBER 3, 2015

Date Prepared 9/1/15

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	All Star Rents	Trencher Rental (1 Day) (Plum Tank Power)	$199.94
2	AT&T	SCADA Line	12.61
3	Baker, Jack	August Director's Fee	410.00
4	Balestreri, Peter	Novato "Toilet" Rebate Program	100.00
5	Banana Man's Water Trucks	Fill NMWD RW Tank (18,000 gal)	640.00
6	Betlem, Felice	Refund Overpayment on Open Account	156.94
7	BlackPoint Tree Service	Remove Dead Pines at Atherton Tank	2,675.00
8	Bold & Polisner	July Legal Services	1,880.50
9	California State Disbursement	Wage Assignment Order	1,053.37
10	CalPERS	Health Insurance Premium (Employees $51,155, Retirees $10,185 & Employee Contrib $12,077)	73,416.99
11	Clay, Gary	Novato "Pool Cover" Rebate Program	20.00
12	Core Utilities	Consulting Services: July IT Support ($5,000), Reprogram PRTP PLC, Develop New Program for Gallagher Well PLC ($1,650), PRTP Alarm Testing ($850), Wonderware ($250), Gate Schedule ($500), SCADA ($25) Troubleshoot Thorson Bridge Outage Due to Power Failure ($50), Core Utility Billing Modifications ($1,450) & Website Revisions ($950)	10,725.00
13	Dullaghan, Diana	Overpayment on Closed Account	61.20
14	Environmental Resource Assoc	Reference Sample for pH (Lab)	240.62
15	Fisher Scientific	Phosphate Buffers (50) (Lab)	118.14
16	Fornos, Marivi	Novato "Toilet" Rebate Program	200.00
17	Fraites, Rick	August Director's Fee	410.00

*Prepaid

Seq	Payable To	For	Amount
18	Fremouw Environmental Service	Oil Debris Removal (Shop)	357.23
19	Gingold, Joel	Novato "Toilet" Rebate Program	100.00
20	Golden Gate Petroleum	Gas ($2.80/gal) & Diesel ($2.51/gal)	1,283.47
21	Goodpaster, Stacie	Exp Reimb: Registration AWWA Conference 10/27-10/29/15 in Las Vegas	495.00
22	Grainger	Bucket Organizers (4) ($68), Tie Down Straps (3), Kneeling Pads (2) ($94), Hard Hats (2) & Construction Film (10 x 100') ($88)	331.42
23	Groeniger	16" Disassembly Joint Fitting (Zone A Pressure Improvements)	1,673.15
24	Hach	Sulfuric Acid ($64) & Alkaline Cyanide (50 mL) (6) (STP)	183.30
25	Hall Dump Truck Service	Remove Dirt Spoils from NMWD Yard (180 yds)	2,700.00
26	Hauke, Mary	Refund Overpayment on Closed Account	32.97
27	Hoge, Emily	West Marin "Washer" Rebate Program	50.00
28	Horvath, Julius	Novato "Toilet" Rebate Program	100.00
29	Irish & Son Welding	Welding Services	720.00
30	Jaeger, Jennifer & Christopher	Novato "Washer" Rebate Program	50.00
31	Kaiser Foundation Health Plan	DMV/DOT Physical (Arendell)	115.00
32	Klatt, Kevin	Novato "Toilet" Rebate Program	200.00
33	Landeros, Dianne	Exp Reimb: Mileage - GASB68 Seminar in Danville on 8/18/15	68.10
34	Lincoln Life	Deferred Compensation PPE 8/31/15	13,554.18
35		Cafeteria Plan: Childcare Reimbursement	416.66
36	Maglio, Anthony	Novato "Cash for Grass" Rebate Program	145.00
37	Maltby Electric	Conduits (140) ($109), Elbows (4) & Weatherproof Box and Covers (2)	138.72
38	McGuire, Thomas	Novato "Cash for Grass" Rebate Program	169.00
39	Nationwide Retirement Solution	Deferred Compensation PPE 8/31/15	1,825.00

Seq	Payable To	For	Amount
40	Nelson, Thomas	Novato "Cash for Grass" Rebate Program	350.00
41	Pace Supply	Angle Meter Stops (94) ($4,167), Coupling & Sweeps (36) ($378)	4,576.17
42	Petterle, Stephen	August Director's Fee	410.00
43		Cafeteria Plan: Childcare Reimbursement	208.33
44		Cafeteria Plan: Childcare Reimbursement	118.75
45	Rodoni, Dennis	August Director's Fee ($410), WAC/TAC SCWA Coordinating Meeting on 7/22/15 ($205) & WAC/TAC Meeting in Santa Rosa on 8/3/15 ($205)	820.00
46	Schoonover, John	August Director's Fee Less Deferred ($360) & NBWRA Meeting on 7/27/15 ($205) & NBWRA Tour on 8/20/15 ($205)	770.00
47	Sebastopol Bearing & Hydraulic	Blower Drive Couplings ($52) (STP) & Parts and Labor to Repair Leaks in Snap Cutter ($273)	324.13
48	Sequoia Safety Supply	Brief Relief Urine Bags (100)	253.97
49	Shell	Tool Fuel	4.42
50	Shepherd, Geoff	Novato "Toilet" Rebate Program Commercial	100.00
51		Vision Reimbursement	184.00
53	Syar Industries	Asphalt (6 tons)	749.07
54	Tamagno Green Products	STP Sludge Removal	2,340.00
55	Thatcher of California	Ferric Chloride (10 tons)	5,161.80
56	Timmer, Richard	Novato "Toilet" Rebate Program	200.00

Seq	Payable To	For	Amount
57	U.S. Bank Card	ACWA Conference Reg ($100) (Baker & Fraites), Hard Drive for Yard Camera ($147), Frame for Retiree Resolution ($16), Cookies for Picnic ($15), Marin IJ Ad for Budget Summary ($136), Archive Back-up Drive ($89), Facebook-Conservation Messages ($233), Conservation League Breakfast w/ Jared Huffman ($17) (Bentley), Phone for STP ($153), AWWA Seminar Registration & Contract Hours on 7/13 ($290) (Bena & Goodpaster), Business Lunch ($40) (DeGabriele), Skillpath Leadership Seminar ($98) (Young) & Flowers for Injured Employee ($73)	1,554.08
58	Verizon Wireless	August CIMIS Station Data Transfer Fee	50.21
59	Vierra, Jean	Novato "Cash for Grass" Rebate Program	290.00
60	Wong, Kenneth	Novato "Washer" Rebate Program	50.00
61	ZFA Structural Engineers	Progress Pymt#2: Structural Engineering Design for Lynwood Pump Station Building & Site Screen Addition (Balance Remaining on Contract $2,700)	1,800.00
62	Ziots, Paul	Novato "Washer" Rebate Program	50.00
		TOTAL DISBURSEMENTS	**$137,393.44**

The foregoing payroll and accounts payable vouchers totaling $137,393.44 are hereby approved and authorized for payment.

8/31/15

Auditor-Controller Date

Chris DeGabriele 8/31/2015

General Manager Date

NORTH MARIN WATER DISTRICT
CHECK REQUEST

PAYEE DENNIS RODONI	DATE 8/3/15 (TODAY'S DATE)
P.O. Box 872	
Pt. Reyes Station, CA 94956	AMOUNT: $205.00

I attended the WAC TAC - SCWA coordination meeting (NAME OF MEETING OR WORKSHOP) on 7/22/15 (DATE OF MEETING)

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

SIGNATURE

CHARGE TO: 56001-01-11

DISPOSITION OF CHECK

☐ MAIL TO PAYEE
☐ HOLD FOR _____
X OTHER:
ACH PAYMENT

APPROVED TO PAY BY

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REV. 0213

Prepared By	Accounting Review	POST DATE	Vendor No.
			RODO01

NORTH MARIN WATER DISTRICT

Invoice Number (CK Req ID)	Invoice (CK Req) Date	Invoice (CK Req) Amount
CKRQ		$205.00

NMWD Comment

Job Number	GL Account	Amount
	56001-01-11	$205.00
	TOTAL	$205.00

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NORTH MARIN WATER DISTRICT
CHECK REQUEST

PAYEE DENNIS RODONI	DATE 8/3/15 (TODAY'S DATE)
P.O. Box 872	
Pt. Reyes Station, CA 94956	AMOUNT: $205.00

I attended the WACTAC meeting in Santa Rosa on 8/3/15

(NAME OF MEETING OR WORKSHOP) (DATE OF MEETING)

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

SIGNATURE

CHARGE TO: 56001-01-11

DISPOSITION OF CHECK

☐ MAIL TO PAYEE
☐ HOLD FOR _____
X OTHER:
ACH PAYMENT

APPROVED TO PAY BY

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

Prepared By	Accounting Review	POST DATE	Vendor No.
			RODO01

NORTH MARIN WATER DISTRICT

Invoice Number (CK Req ID)	Invoice (CK Req) Date	Invoice (CK Req) Amount
CKRQ		$205.00

NMWD Comment

Job Number	GL Account	Amount
	56001-01-11	$205.00
	TOTAL	$205.00

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NORTH MARIN WATER DISTRICT
CHECK REQUEST

PAYEE JOHN SCHOONOVER	
1160 Rosalia Drive	DATE 8/4/15 (TODAY'S DATE)
Novato, CA 94947	AMOUNT: $205.00

I attended the NSWRA on 7/27/15

(NAME OF MEETING OR WORKSHOP) (DATE OF MEETING)

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

SIGNATURE

CHARGE TO: 56001-01-11

DISPOSITION OF CHECK

X MAIL TO PAYEE
☐ HOLD FOR _____
☐ OTHER

APPROVED TO PAY BY

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REV. 0213

Prepared By	Accounting Review

POST DATE	Vendor No.
	SCHO01

NORTH MARIN WATER DISTRICT

Invoice Number (CK Req ID)	Invoice (CK Req) Date	Invoice (CK Req) Amount
CKRQ		$205.00

NMWD Comment

Job Number	GL Account	Amount
	56001-01-11	$205.00
	TOTAL	$205.00

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NORTH MARIN WATER DISTRICT
CHECK REQUEST

PAYEE JOHN SCHOONOVER	
1160 Rosalia Drive	DATE 8/24/15 (TODAY'S DATE)
Novato, CA 94947	AMOUNT: $205.00

I attended the NBWRA TOUR on 8/20/15
(NAME OF MEETING OR WORKSHOP) (DATE OF MEETING)

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

SIGNATURE

CHARGE TO: 56001-01-11

DISPOSITION OF CHECK

X MAIL TO PAYEE
☐ HOLD FOR _____
☐ OTHER

APPROVED TO PAY BY

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REV. 0815

Prepared By	Accounting Review

POST DATE	Vendor No.
	SCHO01

NORTH MARIN WATER DISTRICT

Invoice Number (CK Req ID)	Invoice (CK Req) Date	Invoice (CK Req) Amount
CKRQ		$205.00

NMWD Comment

Job Number	GL Account	Amount
	56001-01-11	$205.00
	TOTAL	$205.00

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MEMORANDUM

To: Board of Directors

September 11, 2015

From: David L. Bentley, Auditor-Controller

Subj: Mandated Cost Reimbursement
t:\ac\word\memo\16\mandated cost reimb.docx

RECOMMENDED ACTION: Information

FINANCIAL IMPACT: $49,776 Received in June & September

In years past the State of California was required to reimburse public agencies for the cost to comply with State mandated legislation. From FY98 through FY05 the District filed claims totaling $153,939 in costs incurred to comply with such legislation as the Open Meetings Act and the Brown Act. In April 2001, the Board approved a contract with Shields Consulting Group to assist the District in recovering said costs. Every quarter, the District Secretary sent copies of agendas, the Auditor-Controller's Monthly Report of Investments and other documents to Shields Consulting, and they, in turn, submitted the appropriate claim forms to the State of California for reimbursement. Shields fee was negotiated at 15% of the amount of reimbursement received by the District.

While the mandated costs incurred are reimbursable under law, in many years the California legislature failed to appropriate funds to reimburse local agencies. As the economy improved, State legislators again agreed to appropriate monies to reimburse local agencies for costs incurred from FY1998 through FY2005. The District received $38,954 in June 2015 as final payment for FY1998-2005 claims and then $10,822 in early September as interest on the delayed payments, calculated at the LAIF rate. To date, the District has now received $166,417 in cost reimbursement, and Shields Consulting has been paid $23,091 (15% of the claimed reimbursements received).

Commencing in FY06 the District filed claims pertaining to the cost of complying with the Brown Act and Open Meeting Act without the assistance of Shields Consulting. In June 2014 California voters approved Proposition 42, eliminating reimbursement for mandated costs incurred after FY12. None of the claim amounts submitted by the District from FY06 through FY12 ($91,436)[1] have yet been reimbursed by the State. The Governor's budget stated that the FY06-FY12 mandated cost reimbursements will be satisfied no later than 2017-18.

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[1]

FY06	$13,343
FY07	$13,560
FY08	$12,153
FY09	$12,577
FY10	$12,877
FY11	$13,940
FY12	$12,986
Total	$91,436

BOD MISC

TECHNICAL ADVISORY COMMITTEE
REGULAR MEETING
NOTICE OF CANCELLATION

The Technical Advisory Committee meeting regularly scheduled for September 14, 2015 has been cancelled at the request of the Chairman.

The next regular meeting of the Technical Advisory Committee will be held Monday, October 5, 2015, at 9:00 a.m. in the Utilities Field Operations Training Center, 35 Stony Point Road, Santa Rosa, California.

LINDA HALL
Recording Secretary

Clayton Smith on the Corte Madera Town Council's review of the WinCup site development process.

"When unpermitted work is done, nab the culprit, not the property owner down the road who relied upon the agency doing its job of compliance oversight. An argument of estoppel should be made against the city which punishes based upon its own failure to follow the regulations."

Joyce Britt on the state audit of San Rafael's residential resale review process.

are very antisocial and scary.

The IJ story is attempting to make Hugo the problem and he's not, quite the contrary; he is showing great compassion in his attempt to keep the homeless issues up front with the city, county and residents.

— Anne Pearson, San Rafael

US shares the blame for immigration woes

I suggest that those ob-

wouldn't you, too, ignore U.S. immigration rules?

— William Rothman, MD, Belvedere

Upholding California's strong climate leadership

So Big Oil is back in the Assembly, trying to buy the reversal of climate laws that it failed to get at the ballot box ("Climate change legislation to go down to the wire," IJ, Aug. 30).

positioning system — by which California can lead the world beyond the climate crisis and into a thriving clean energy economy.

Seventy-eight percent of Marin upheld California's climate leadership in the Proposition 23 vote. Now we're looking for effective leadership from Assemblyman Marc Levine to assure passage of SB 32 and SB 350.

— Bill Carney, San Rafael

BOD MISC

Marin Voice

Why proposed COIN law is bad for taxpayers

By Annie Song-Hill

I am a former labor mediator for the state of California.

I was one of the mediators in the 2009 BART impasse.

Mediators are called in when the parties reach impasse and a strike is imminent. In this case professional negotiators were used by all parties.

Professional negotiators are often lawyers hired by management and, in the case of public agencies, paid for by taxpayers. Unions are represented by negotiators paid for by employees through union dues.

In this particularly bitter labor dispute, much of the negotiations were held in public with news media parked outside of the building where negotiations were taking place and each side accusing the other with fiery rhetoric that made the parties more entrenched in their positions.

In mediation, there are laws requiring confidentiality. That is because in order to maximize the possibility of agreement, the parties need to focus on resolving issues, not playing to their respective audiences.

Unions have to show that they are tough and that the dues members' pay is being put to good use.

This often results in posturing and making demands that please their members but are not realistic. Likewise, outside professional management negotiators have billable hours to consider, and want to demonstrate that public funds spent on hiring them is justified.

They likewise are tempted to posture to show the elected boards that they are being tough on unions so that the elected officials can say to their constituents that they are holding back costs and are good fiscal stewards.

Playing to the audiences of both labor and management takes away from the hard work of considering real issues and coming to agreement.

COIN is unnecessary because current law provides for public disclosure of proposals once they are made at the bargaining table, as well as disclosure of tentative agreements prior to ratification.

The proposed Civic Openness in Negotiations ordinance requires that each proposal be evaluated by an independent auditor. This would be costly, time-consuming and inefficient.

I am not sure why this is viewed as a good thing for taxpayers.

Outside negotiators are expensive, and they do not have to live with the agreement.

Bitter labor disputes impact morale and organizational effectiveness long after the dispute is resolved. How would an outside negotiator be more effective than a county management employee with ongoing accountability to the Board of Supervisors?

The reason that the Brown Act (the state's open meetings law) specifically exempts labor negotiations and discussion of other legal matters is because to allow the public in on complex contract issues creates a distraction that makes reaching agreement more difficult. However, nothing in current law prohibits either party from publicizing proposals once they are made at the bargaining table.

Why are negotiations confidential?

Many times ideas are explored in negotiations that ultimately are discarded by either party after exploration and consideration of the issue. To require that each proposal be publicized and costed out before it has been fully vetted by the parties at the table would cause unnecessary concern and confusion over proposals that are neither serious nor viable.

COIN is unnecessary because current law provides for public disclosure of proposals once they are made at the bargaining table, as well as disclosure of tentative agreements prior to ratification.

COIN is not a good idea because mandating the use of outside negotiators and auditors will add to the cost and time of negotiations and will not improve outcomes.

Annie Song-Hill is a former labor mediator. She is a former Dixie School District trustee and was a public member on the IJ editorial board.

How to have your say: Confine letters to 250 words. Letters are edited for length, grammar, spelling, clarity, style, libel and civility. We do not publish form letters, "open" letters, petitions, individual consumer complaints or letters published elsewhere. Letters must include the writer's name, address and daytime phone number so we can verify authorship.

Email: opinion@marinij.com **Phone:** 382-7291 **Fax:** 382-7209

Mail to: Readers' Forum, Marin IJ, 4000 Civic Center Drive, Suite 301, San Rafael, CA 94903

Twitter: Follow and send tweets to @MARINIJ

Facebook: Leave comments at FACEBOOK.COM/MARINIJFAN

Water agency hosts free efficiency giveaway

By Joe Wolfcale Marinscope Newspapers | Posted: Wednesday, September 9, 2015 12:00 pm

Water agency hosts free efficiency giveaway

Novato residents will be able to take advantage on Thursday.

Novato water customers have exceeded state wide mandatory restrictions this summer, one North Marin Water District official said, but there's always new and improved ways to help the county deal with the drought.

"Our water usage has been down significantly overall and our customers have been doing very well," North Marin Water District's conservation coordinator Ryan Grisso said last week. "They've been doing a good job overall. We've had no formal rationing and we're exceeding the mandated amount."

Novato water customers were hit earlier this year with a state mandated 24 percent reduction in water use that was ordered by the State Water Resources Control Board.

Through the tough summer months Novato customers have reduced water use by an average of 35 percent.

North Marin Water District officials, in conjunction with the Sonoma-Marin Saving Water Partnership, will host a Drought Drive-Up event Thursday, Sept. 10 where water-saving devices – high-efficiency showerheads, kitchen and bath faucet aerators, shower buckets and dye tabs to check for leaks, will be made available to customers free of charge.

Novato residents can come to the district offices at 999 Rush Creek Place from 7 a.m. to 6 p.m. Similar events will be held in Roseland and Windsor in the North Bay.

"Our hope is that by handing out these free tools, it will encourage people to continue to reduce their water usage," Sonoma County Water Agency Director Efren Carrillo said. "We need everyone to get involved and participate in conservation efforts in order to reach our goal."

The North Marin Water District, with more than 61,000 customers, serves the city of Novato, unincorporated areas and the communities of Black Point, Loma Verde and Bel Marin Keys.

Last year, the NMWD held an event at the Vintage Oaks shopping center. Grisso said the agency hopes to have an even bigger turnout this year.

Currently, Novato customers are required to water outside areas on a three-day a week schedule and are prohibited to water during the daytime hours, Grisso said.

Last year, NMWD customers removed landscape turf and did so at a record pace. Customers who complied with presented with the agency's Cash for Grass rebate. More than 114,000 square feet of turf was removed by more than 130 customers, Grisso said.

Additionally, the district's recycled water fill station continues to be popular. The station is open Tuesday, Thursday and Friday from 4-7 p.m. and Saturday from 8 a.m. to noon. Grisso said approximately 45 regular customers take advantage of the recycled water each day it is open.

"We just want to provide our customers with the tools to make them more water use efficient," Grisso said. "We're doing everything we can to get them to reduce water use."

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IPUD bans outdoor watering systems

By Beau Evans
09/10/2015

A water shortage in Inverness has led to a ban on all outdoor watering systems, a prohibition in place as of Wednesday and to continue "until further notice," the Inverness Public Utility District announced.

After heavy holiday weekend use, less fog than usual and a string of hot days combined with ongoing drought conditions, creek flows in town are distressingly low. Because of the meager flows, one of the district's two holding tanks was only 30 percent full after the weekend, and despite a small gain on Tuesday, did not rise to the district's goal of 50 percent by Wednesday, prompting the ban.

Only hand watering will be allowed; sprinklers and other time-activated watering systems are prohibited. "It could last until it rains," said Scott McMorrow, the district's general manager. "What we're anticipating is the stream flows are not going to improve. So it depends on whether they can hold steady until it rains."

If conditions do not improve, Mr. McMorrow noted, the district could move to ban all outdoor watering and, potentially, impose rationing as well as fines for noncompliance. The district supports 510 connections in Inverness.

Marin hits water saving goals for August

By **Mark Prado**, *Marin Independent Journal*

POSTED: 09/07/15, 11:15 AM PDT | UPDATED: 2 HRS AGO3 COMMENTS

Marin residents have succeeded in hitting state-mandated water saving goals for the third straight month as California battles drought.

State mandates issued in May required the Marin Municipal Water District to cut use by 20 percent and the North Marin Water District by 24 percent as of June 1. The state developed those percentages by looking at per-capita water use between July and September 2014. The higher the water use, the more a community had to cut back.

In August, Marin Municipal users achieved a 20 percent water savings in July compared with August 2013, the baseline year the state is using to measure conservation efforts. That was the last year California was not in drought.

"We are still doing quite well," said Libby Pischel, water district spokeswoman.

Customers conserved 26 percent in June and 23 percent in July. The cumulative savings over the three months is 22.9 percent.

The agency has 190,000 customers between Sausalito and San Rafael. The water in district reservoirs is 103.50 percent of average for this time of year, in part because of conservation efforts.

August data for the North Marin Water District's Novato service area show a 34 percent reduction from the same month in 2013. The North Marin Water District serves 60,000 customers in Novato and West Marin.

"Novato water customers continue to do a great job saving water," said Chris DeGabriele, general manager of the water district.

North Marin gets 80 percent of its water from the Sonoma County Water Agency. The district's customers conserved 37 percent in June and 36 percent in July.

The new water saving rules remain in effect until February 2016, with state water officials cautioning that continuing warm weather could still prove to be a conservation challenge. But weather forecasters say a wet El Niño winter could be in store for the state and bring some drought relief.

North Marin Water District customers who have online accounts can sign in and see past water usage as well as goals for the coming months.

Marin Municipal also allows customers to view their water consumption online, although drought targets are not shown.

In April the Marin Municipal board passed new rules requiring residents and businesses with irrigation

systems to use them only three days a week. There also is a ban on using the systems 48 hours after measurable rainfall.

North Marin's board approved similar measures in May. Its rules differ in that homes and buildings with odd-numbered addresses will only be able to water Monday, Wednesday and Friday. Even-numbered addresses will water Tuesday, Thursday and Saturday. All watering is limited to between 7 p.m. and 9 a.m., as with Marin Municipal customers.

BOD Misc

Water added to Camp Meeker's Dutch Bill Creek a 'lifesaver' for young fish

BY GUY KOVNER THE PRESS DEMOCRAT on September 7, 2015, 8:49PM09/07/2015

Thanks to a novel injection of cold, clear water from Camp Meeker's water system, about 3,400 imperiled coho salmon and steelhead trout have a better chance of surviving in Dutch Bill Creek until rain sweeps them to safety in the Russian River.

Gurgling as it splashed down a narrow, rock-lined channel under towering redwoods, the gift of water to a shrinking creek was hailed last week by a group of officials from state and local agencies committed to saving the fish from the grip of California's historic drought.

"This is incredibly exciting for me," said David Hines of the National Marine Fisheries Service, calling the flow "literally a lifesaver" for the juvenile coho and steelhead trapped in pools along the creek that winds along Bohemian Highway to a confluence with the river at Monte Rio.

The water, delivered nonstop from a nearby Camp Meeker Recreation and Park District storage tank at 44 gallons a minute, amounts to just one-tenth of a cubic foot per second — minuscule compared with the current release of 110 cfs from Lake Sonoma's Warm Springs Dam into the river near Healdsburg.

But it has more than doubled the volume of water in the creek, one of four primary coho-rearing waterways in Sonoma County, affording the fish a "minimum subsistence" flow for the rest of the summer, Hines said.

"A lot of coho in the other creeks aren't going to make it," he said, referring to Green Valley, Mark West and Mill creeks, and there's a "distinct possibility" that coho could go extinct in the Russian River basin.

In June, the State Water Resources Control Board gave rushed approval to rules mandating water conservation measures by about 10,000 landowners in the four watersheds and requiring them to report the source and use of water on their properties to the state agency.

Residents have angrily faulted the conservation rules for exempting vineyards, and are now chafing under the complex water reporting system, but have widely agreed with the need to save the young fish. Coho and steelhead, along with chinook salmon, are local species that are born in fresh water, spend most of their lives in the ocean and return to fresh water to spawn.

Researchers counted 2,000 coho and 1,400 steelhead juveniles, 2 to 3 inches long, in a snorkeling survey last month on Dutch Bill Creek, said Mariska Obedzinski, a fish biologist who coordinates the UC Cooperative Extension's coho monitoring program.

Coho salmon are listed as an endangered species in the Russian River; steelhead are a threatened species.

Camp Meeker is basically recirculating the creek's water to aid the fish, said Gary Helfrich, a Camp Meeker Recreation and Park District board member.

The small district, which delivers water to 350 Camp Meeker homes, is entitled to draw 29 million gallons of water a year from two wells at the creek's Monte Rio end. The water is pumped about 6 miles up Bohemian Highway to the community's 6,700-gallon tank on a hill across from the Alliance

Redwoods Conference Grounds.

There are no lawns in Camp Meeker and conservation-minded residents use only 30 gallons per person a day, Helfrich said, leaving the system with a comfortable surplus of 10 million gallons a year.

The concept of returning some of that water to the creek has been percolating for years, it turns out. Brock Dolman of the Occidental Arts & Ecology Center said he had been promoting the "crazy idea" for years, but it "never had legs" until the four-year drought finally made it appealing.

"It seemed like such a no-brainer," he said. "Just putting in a valve (on the Camp Meeker water tank) and a pipe."

John Green, lead scientist with the Gold Ridge Conservation District, had shared the idea and helped make it happen, laying 450 feet of flexible pipe that snakes down the hill from the tank, through a culvert under the highway and spills water into the creek channel on Alliance Redwoods property.

Flowing 24/7, the release will add more than 63,000 gallons a day to Dutch Bill Creek and will continue until rain swells the creek naturally.

Green said the effort, including materials and staff time, cost about $1,000. He also has grant funding to compensate the Camp Meeker district for the cost of pumping the extra water up from the river.

Helfrich said the biggest obstacle was securing approval from numerous state and federal agencies.

Steven Moore, a state water board member, applauded the project for simplicity and for answering the state's call for voluntary efforts to bolster the flow in coho-rearing creeks.

"What's amazing is this is native water from the watershed," Moore said, noting that the non-chlorinated water has the same chemistry as the creek water. "It's an elegant solution," he said.

Fish surveys in the creek will ultimately assess the impact of the added water, Hines said, but he believes it is certain to make a difference.

Marin IJ Editorial: Marin water-users meet state's drought mandate

POSTED: 09/09/15, 10:25 AM PDT | UPDATED: 2 HRS AGO1 COMMENT

Marin residents and businesses have stepped up and reduced their water use beyond the mandated emergency drought levels handed down by Sacramento.

By being smart and more frugal, residents and businesses have cut back on the water pouring out of their spigots, doing their part of save on water resources which are in short supply across most of California.

Thanks to a welcome and historic rainfall during December, the Marin Municipal Water District and North Marin Water District are in far better shape than other parts of the state. But due to the drought, it's important to protect the water we do have stored in reservoirs in Marin and Sonoma counties.

MMWD customers face a state order to cut water usage by 20 percent compared with 2013 water consumption. But they have done better than that, reducing water consumption by 26 percent in June and 23 percent in July. Savings in August matched the state goal of 20 percent.

North Marin has a state-ordered target of 24 percent and its customers have slashed their water use beyond Sacramento's goal — 37 percent in June, 36 percent in July and 34 percent in August.

North Marin even bettered statewide results, where savings were recorded at 27.3 percent in June and 31.3 percent in July, both far exceeding the state Water Resources Control Board's 25 percent order.

"Millions of conscientious Californians are the real heroes here — each stepping up to help local water resources last longer in the face of an historic drought with no certain end date," said Felicia Marcus, the board's chairwoman.

Locally, a lot of the summer-time cutbacks are the result of restrictions on watering gardens, requiring that sprinklers be limited to running only three days a week and only between 7 p.m. and 9 a.m., to minimize water lost to evaporation.

Many residents have decided to save water by not watering their lawns. Even in those gardens that are kept watered, on hotter days, some plants looked peaked, but still alive.

Of course, many Marin residents are veterans of drought-time cutbacks.

The drought of 1976-77 required the Marin Municipal Water District to order rationing that forced residents and businesses to cut water use by more than half. Since then, there has been a prevailing ethic of not wasting water.

There have been numerous predictions, if not warnings, that wet El Nino weather systems will be making a return swing through the Bay Area this winter. Robust rainfall would be welcome, but we can't afford to rely on predictions.