



**NORTH MARIN WATER DISTRICT**  
**AGENDA - REGULAR MEETING**  
 March 17, 2020 – 6:00 p.m.  
 District Headquarters  
 999 Rush Creek Place  
 Novato, California

***One or more Directors may be attending the meeting through teleconferencing pursuant to and as permitted by Executive Order N-25-20.***

Information about and copies of supporting materials on agenda items are available for public review at 999 Rush Creek Place, Novato, at the Reception Desk, or by calling the District Secretary at (415) 897-4133. A fee may be charged for copies. District facilities and meetings comply with the Americans with Disabilities Act. If special accommodations are needed, please contact the District Secretary as soon as possible, but at least two days prior to the meeting.

Est. Time	Item	Subject
6:00 p.m.	<b>CALL TO ORDER</b>	
	1. <b>APPROVE MINUTES FROM REGULAR MEETING</b> , March 3, 2020	
	2. <b>GENERAL MANAGER'S REPORT</b>	
	3. <b>PRESENTATION ON DRAFT FY 21 SCWA WATER TRANSMISSION SYSTEM BUDGET</b>	
	4. <b>OPEN TIME: (Please observe a three-minute time limit)</b>	
	This section of the agenda is provided so that the public may express comments on any issues not listed on the agenda that are of interest to the public and within the jurisdiction of the North Marin Water District. When comments are made about matters not on the agenda, Board members can ask questions for clarification, respond to statements or questions from members of the public, refer a matter to staff, or direct staff to place a matter of business on a future agenda. The public may also express comments on agenda items at the time of Board consideration.	
	5. <b>STAFF/DIRECTORS REPORTS</b>	
	6. <b>MONTHLY PROGRESS REPORT</b>	
	<b>CONSENT CALENDAR</b>	
	The General Manager has reviewed the following items. To his knowledge, there is no opposition to the action. The items can be acted on in one consolidated motion as recommended or may be removed from the Consent Calendar and separately considered at the request of any person.	
	<b>Consent - Approve Water Agreement</b>	<b>Type DU EU</b>
7.	7380 Redwood Blvd., Jerry's Delicatessen Fire Service APN: 153-044-03	CM 0 0 Resolution
8.	<b>Consent – Approve: Plum Street Tank Property Exchange – Grant Deed</b>	
	<b>ACTION CALENDAR</b>	
9.	<b>Approve:</b> Authorize Affirmative Vote for SCWA FY21 Water Transmission System Budget	
10.	<b>Approve:</b> Brenneis/Furth (APN 114-120-58) – New Easement and Quitclaim	
11.	<b>Approve:</b> Revisions to Employer Assisted Housing Program for Employees of North Marin Water District Policy No. 42	

All times are approximate and for reference only.

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

Est. Time	Item	Subject
		<b>INFORMATION</b>
	12.	FY 19/20 Mid-Year Progress Report – Water Conservation
	13.	FY 19/20 Mid-Year Progress Report – Engineering Department
	14.	Preparing for Dry Year Conditions
	15.	NBWA Meeting – March 6, 2020
	16.	<b>MISCELLANEOUS</b>
		Disbursements – Dated March 5, 2020
		Disbursements – Dated March 12, 2020
		Novato Water Services by Type
		Update - Polybutylene Pipe Population
		Coronavirus Update
		Sonoma Water Press Release – Russian River Biological Opinion Meeting Postponed
		Coast Guard Housing Update – COUNTY OF MARIN
		<u>News Articles:</u>
		Public quiet on proposal to increase water rates – NOVATO
		Marin reservoirs look good despite month's lack of rain – WEATHER
		Russian River Public Policy Facilitating Committee Annual Meeting – Dry Creek Project
		Russian River Inflatable Dam Being Inflated Today
		California Had Its Driest February on Record. Here's How Bad It Was
		NMWD set to adopt one-year rate hike – NOVATO AREA
		Bill: Churches, hospitals could build homes – AFFORDABLE UNITS
		Marin rainfall 66% below average for date - WEATHER
7:30 p.m.	17.	<b>ADJOURNMENT</b>

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DRAFT  
NORTH MARIN WATER DISTRICT  
MINUTES OF REGULAR MEETING  
OF THE BOARD OF DIRECTORS  
March 3, 2020

**CALL TO ORDER**

President Michael Joly called the regular meeting of the Board of Directors of North Marin Water District to order at 6:00 p.m. at the District Headquarters and the agenda was accepted as presented. Present were Directors Jack Baker, Rick Fraites, James Grossi, Michael Joly, and Stephen Petterle. Also present were General Manager Drew McIntyre, District Secretary Terrie Kehoe, and Auditor-Controller Julie Blue.

Consultant Mark Hildebrand, District Legal Counsel Carl Nelson, Novato resident Tim Fuelle and District employee Tony Arendell (Construction/Maintenance Supervisor) was also in attendance.

**MINUTES**

On motion of Director Baker, seconded by Director Fraites the Board approved the minutes from the February 11, 2020 special meeting by the following vote:

AYES: Director Baker, Fraites, Grossi, and Joly

NOES: None

ABSTAIN: Director Petterle

ABSENT: None

On motion of Director Baker, seconded by Director Fraites the Board approved the minutes from the February 18, 2020 regular meeting by the following vote:

AYES: Director Baker, Fraites, Grossi, and Joly

NOES: None

ABSTAIN: Director Petterle

ABSENT: None

On motion of Director Baker, seconded by Director Petterle the Board approved the minutes from the February 25, 2020 special meeting by the following vote:

AYES: Director Baker, Fraites, Grossi, Joly and Petterle

NOES: None

ABSTAIN: None

ABSENT: None

**GENERAL MANAGER'S REPORT**

SCWA Inflatable Dam

Mr. McIntyre announced that last Friday Sonoma County Water Agency (SCWA) began raising their inflatable dam in the Russian River near Forestville. He added that this is earlier than normal due to low river flows.

Russian River Public Policy Facilitating Committee Meeting

Mr. McIntyre apprised the Board that he will be attending the upcoming Russian River Public Policy Facilitating Committee Meeting from 4-6 p.m. in Healdsburg on Thursday, March 12<sup>th</sup>.

Cotati Aqueduct Work

Mr. McIntyre reminded the Board that the SCWA Cotati Aqueduct emergency repair work is scheduled for the week of March 23, 2020. He noted the memo under miscellaneous that provides an update on the repair, and anticipates the contractor will complete work within five working days. Mr. McIntyre added that staff will work with Marin Municipal Water District to keep the combined delivery of imported water below the requested 10 million gallons per day threshold.

TAC Meeting

Mr. McIntyre stated at yesterday's TAC meeting, the TAC voted to recommend that the WAC approve the proposed FY21 Water Transmission System (WTS) budget. The rate increase for NMWD will be 6.79%, noting it was initially 7.37%. He added the FY20 rate was 6.2% and the FY19 rate was 4.8%. Mr. McIntyre also informed the Board that Lynne Rosselli from SCWA will provide a presentation at the next meeting and the Board will be asked to authorize our WAC representative to vote in favor of this budget.

Marin County Coronavirus Update

Mr. McIntyre apprised the Board that Marin County is closely monitoring the federal and state regulatory agencies in reference to the Coronavirus. He noted that Marin County Office of Emergency Services (OES) has activated their Emergency Operations Center (EOC) and they are providing frequent updates to keep local agencies informed. Mr. McIntyre added we are communicating with employees to wash their hands thoroughly, cover their mouth when coughing, use hand sanitizer, and stay home from work if they are sick.

City of Novato Planning Meeting

Mr. McIntyre announced that on March 5<sup>th</sup> he will have a meeting with the City of Novato Planning Manager, Vicki Parker, to discuss ways to improve communication when reviewing new development projects.

**OPEN TIME**

President Joly 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 Joly thanked Ms. Kehoe for completion of all three minutes which were posted on this agenda.

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

Ms. Kehoe reminded the Board and District Officers to complete their Ethics Training by April 1<sup>st</sup> and to submit any updates to the Emergency Contact List at their earliest convenience. She also reminded the Board to submit their Form 700's by April 1<sup>st</sup> and to provide any factual updates to their biographies which will be posted on our new website.

Director Baker said that he was curious about Oceana Marin and noted in the past there has been minimal activity out there as far as building permits. He asked if there was any recent activity out there, and specifically with Parcel K. Mr. McIntyre responded that it continues to be quiet. He also asked if Parcel L was made up of four parcels. Mr. McIntyre confirmed and noted they are located on top of the hill.

Director Grossi noted the lake looks like it is coming up and asked if we are back pumping into the lake. Mr. McIntyre replied no. Director Petterle stated that it looks like it has been coming up the last two to three weeks. Mr. McIntyre replied that the current lake level is at 191 feet which is five feet below the overflow limit. He added that on February 17<sup>th</sup> it was 190.9 feet and at the beginning of February it was at 190.6. Director Baker stated that since there are two frequent viewers the numbers are not convincing, and asked that Mr. Clark provide an explanation at the next meeting. Mr. Arendell advised that Board that the Novato flushing program is almost done, and the program is anticipated to be complete by the end of this week or early next week.

**CONSENT CALENDAR**

On the motion of Director Fraites, and seconded by Director Petterle the Board approved the following items on the Consent Calendar by the following vote:

AYES: Director Baker, Fraites, Grossi, Joly and Petterle

94 NOES: None  
95 ABSTAIN: None  
96 ABSENT: None

97 **OCEANA MARIN TREATMENT AND STORAGE POND REPAIR PROJECT – CEQA – NOTICE**  
98 **OF EXEMPTION**

99 The Board approved filing of a Notice of Exemption for this project. The Oceana Marin  
100 Treatment and Storage Pond Repair Project proposes to mitigate the impacts of extreme weather  
101 and earthquakes at the Oceana Marin Waste Water Treatment and Storage Ponds. The current  
102 project entails amoring of the pond berms with stabilization fabric and rock rip rap to provide a long-  
103 term solution with a high degree of effectiveness.

104 **HUMAN RESOURCE CONSULTING CONTRACT AMENDMENT – DARLENE RHODES**

105 The Board authorized a contract amendment in the amount of \$20,125 for HR consultant  
106 Darlene Rhodes. The objective of this consulting services amendment is to provide continued  
107 assistance for current HR matters and to assess the ongoing needs of the District.

108 **ACTION ITEMS**

109 **ACCEPT NOVATO AND RECYCLED WATER RATE STUDY DRAFT REPORT AND DIRECT**  
110 **STAFF TO PREPARE A PROPOSITION 218 NOTICE OF PUBLIC HEARING ON REVENUE**  
111 **INCREASES AND RATE STRUCTURE CHANGES**

112 Mr. McIntyre explained the objective of the Novato Water Rate Study is to develop water  
113 rates that are fair and equitable and to ensure that the District's water rates remain in compliance  
114 with Proposition 218. He summarized that the 2020 Novato and Recycled Water Rate Study was  
115 developed through multiple meetings over several months with District staff and the Board's Ad Hoc  
116 Water Rate Study Subcommittee comprised of Directors Joly and Grossi. Mr. McIntyre stated that  
117 during this process, the District carried out an extensive public outreach campaign that began in  
118 October 2019 and included newsletters mailed to all customers, water bill messages, social media  
119 posts, ads in the local newspaper, web notices, and more. He added that two Special Board  
120 Meetings were held to conduct Workshops on the proposed Novato Water Rate Study in order to  
121 solicit input from our customers. Mr. McIntyre also pointed out that only a couple of customers have  
122 expressed opposition during the outreach process. Mr. McIntyre introduced Mr. Hildebrand who  
123 provided an overview of the cost of service study and informed the Board that at the completion of  
124 the presentation he can take public comments prior to the Board taking action on the report and  
125 providing direction to staff.

126 Mr. Hildebrand gave the third and final presentation for the draft 2020 Novato and Recycled  
127 Water Rate Study. The presentation led into a discussion that included the rate setting process,  
128 rate study framework, enterprise fund revenue/expenses, capital spending and reserves, financial  
129 forecast and rate structure design.

130 Director Joly noted that the approval of the rate increase will be at the June 16, 2020  
131 meeting, noting tonight the Board will be deciding if the rate will be in effect for one year or multiple  
132 years. Mr. McIntyre stated that whether the Board decides on a single year or multiple years it  
133 needs to be noted on the Proposition 218 notice, tonight is setting the stage on what messaging we  
134 will be sending to our customers. Mr. Hildebrand advised that if the Board did not want a multi-year  
135 rate increase initially, they can decide on one-year rate increase and then next year change it to a  
136 multiple year rate increase.

137 Director Baker asked for clarification on customers with 5/8-inch meters that need to  
138 remodel and will need a 1-inch meter for fire sprinkling. He added that those customers are not  
139 using any more water and therefore shouldn't be treated differently. Mr. Hildebrand replied that this  
140 is mentioned on slide 31 of the presentation, because of the fire requirements going forward they will  
141 be charged the same as a 5/8-inch meter, because it does not affect their water consumption.  
142 Director Baker asked if a person in tier one will be charged differently. Mr. Hildebrand responded  
143 that there will be some customers in tier one that may end up in tier two, but the tier two rates will  
144 drop. Director Baker asked if it is a wash. Mr. Hildebrand replied that 74% will stay in tier one and  
145 those in tier two will not see a huge increase. Director Joly stated he uses a lot of water during the  
146 summer because of his garden, so he went to the online rate calculator to get an idea of what his bill  
147 would be. He stated his bill went up less than anticipated because of the tier two rate going down,  
148 and added his bill will only go up eight dollars. Director Joly asked if most agencies have changed  
149 their rate structure due to Proposition 218. Mr. Hildebrand replied that he has worked with six  
150 agencies and all of them are getting in line with Proposition 218.

151 Director Baker requested an exhibit that would be easy to understand showing the number of  
152 commercial versus residential customers, and a breakdown of apartments and condominiums. Mr.  
153 Hildebrand noted on page 32 if you add up all the residential, approximately 70% are single family  
154 homes.

155 Director Petterle asked what the cumulative rate increase was over the five-year period. Mr.  
156 Hildebrand replied the cumulative rate increase was around 31.3%. Director Joly asked if the Board  
157 only adopts the first 6% increase, it will only impact the first year, and then later the Board can  
158 decide on the length of years and rate. Mr. Hildebrand confirmed. Director Joly asked Mr. McIntyre



159 if staff recommended the Board to do a one year or five-year increase. Mr. McIntyre replied that  
160 every year staff has produced a five-year financial plan and typically recommends a one-year rate  
161 increase. He added that the Board has historically followed staff's recommendation to move forward  
162 with a single year rate increase, and it was his opinion to so again this year. Mr. McIntyre noted on  
163 the flip side a multiple year rate adoption is easier for staff, as it saves some cost because it  
164 eliminates a formal forty-five day noticing process every year. He stated that he still believes it is  
165 important to communicate to our customer each year and especially this year to keep our messaging  
166 as simple as possible given the complexity of the various rate structure changes. Mr. McIntyre  
167 reminded the Board that ultimately it is the Board's decision.

168 Director Petterle stated that he agrees with Mr. McIntyre. He concurred that it would be good  
169 to approve a one-year rate at this time instead of a multi-year rate projecting a 31% increase.  
170 Director Petterle added it would be good to see the status each year and decide the increase at that  
171 time. Director Fraites asked if we locked in to the five-year schedule, would we need to have a  
172 hearing every year. Mr. McIntyre replied that if the Board decided to approve a Proposition 218  
173 notice for five years we would not be required to have a public hearing every year. Mr. Nelson  
174 stated if you are adopting a multi-year schedule you don't have to hold a hearing each year, but  
175 instead give a 30-day notice. He added that the Board would still have the authority to change it,  
176 and that you are never really locked in. Director Grossi asked if the study was good for five years no  
177 matter what we do. Mr. Nelson replied that the five-year rate study window is standard of the  
178 industry. Director Grossi asked if the Board adopts a three-year rate increase, would we have to do  
179 another Proposition 218 notice again after three years. Mr. Nelson replied yes. Director Grossi  
180 asked if the Board adopts a one-year rate increase, how does that affect the second year. Mr.  
181 Nelson replied that you would do a forty-five notice and a hold a public hearing each year that you  
182 were deciding a rate to adopt.

183 Director Grossi stated that he is leaning towards the three-year rate increase, noting a lot of  
184 staff time has been used throughout the six meetings. He added that he believes we can explain  
185 the three-year window, and understands the problem for all five years is 31.3%, asking how much it  
186 will be for three. Mr. Hildebrand responded about 19.5% for three years. Director Grossi stated he  
187 likes the three years. Director Baker noted he is leaning towards that. Director Fraites added that  
188 he understands the yearly rate increases requires notices and hearings and is based on a decision  
189 previously, but he pointed out that we don't know what will happen in the future, cost may go up due  
190 to the drought, SCWA may raise their rates and we may have to reexamine things. He added that if  
191 we are looking at this each year we can take a better look at it and it will be easier for the customer  
192 to understand. Director Petterle stated that water rates in Marin County have been controversial as

193 long as he has been on the Board, it always makes headlines. His concern is a change that would  
194 require all the work invested would have to start all over again. He stated that he is strongly in favor  
195 of the five-year plan, but would like to see the rate increase remain at one year at a time. Director  
196 Joly commented that he liked the idea of the multiple years not having the Prop. 218 notice, but he is  
197 worried about messaging a 6% rate increase which may be an actual increase of 7.7% or greater  
198 due to rate structure changes; that multi-year rate increase could further confuse customers. He  
199 added after the first year the rate increase will be across the board, and he wants the District to be  
200 seen as giving the public maximum transparency and honesty, we want to give the customer the  
201 opportunity to dialog about it. Director Joly asked if after the first year, next year the Board could opt  
202 to adopt multiple years next time. Mr. Nelson confirmed. Director Petterle added that we have a  
203 contract with Kiosk, we should get out in front of it and let people know that the increase is 6%, but it  
204 could be more or less for some, we need to be transparent and clear.

205 Director Grossi noted he doesn't see a problem with the three-year extension since it is still  
206 less than what MMWD is proposing in one year. He stated that the only time we get press is when  
207 there is a rate increase and understands the argument for a one-year rate, but believes it is not  
208 efficient. Mr. McIntyre noted that the cost of the rate study is the same whether the Board adopts a  
209 one year or five-year rate increase, the additional cost is internal administrative cost. Director  
210 Petterle asked what that cost would be. Mr. McIntyre replied that the direct mailer would be the most  
211 cost. Director Petterle asked Mr. McIntyre if he recommends doing one year at a time. Mr. McIntyre  
212 replied yes, the first year especially. He added with all the variables in the first year due to the rate  
213 structure changes it will be clearer to the customer with a single year rate increase at this time and  
214 then next year we could look at multiple years when there is less change. Director Baker stated he  
215 likes multiple years and agrees with Director Grossi's approach. Director Joly announced he was  
216 requesting that the Board move forward with two separate actions.

217 On the motion of Director Petterle, and seconded by Director Fraites the Board approved to  
218 accept the 2020 Novato and Recycled Water Rate Study Draft Report by the following vote:

219 AYES: Director Baker, Fraites, Grossi, Joly, and Petterle

220 NOES: None

221 ABSTAIN: None

222 ABSENT: None

On the motion of Director Petterle, and seconded by Director Joly the Board approved directing staff to proceed with Proposition 218 noticing for a one-year revenue increase along with associated rate structure changes by the following vote:

AYES: Director Fraites, Joly, and Petterle

NOES: Director Baker and Grossi

ABSTAIN: None

ABSENT: None

Director Grossi made a point of order to clarify that the rate was not accepted for the first year, instead the Board was just giving direction to staff. Director Fraites noted he voted in favor, and agrees with Mr. McIntyre that this makes sense for the first year and next year he would like to look at adopting a multiple year rate increase. Mr. Nelson commented that he believes the Board has explained their direction well. The Board thanked Mr. Hildebrand for all his hard work on the rate study.

Director Baker noted a customer in the audience and asked if he had any questions. Mr. Fuelle replied that he would like to read the complete study and he will contact Mr. McIntyre if he has any questions. Director Joly noted that there will be plenty of time for questions, from now until the hearing on June 16, 2020.

#### **LOW INCOME RATE ASSISTANCE PROGRAM POLICY**

Ms. Blue explained that the program would be available to proven low income customers in the single-family residential classification and would provide a credit on their two-month billing cycle of \$15 per bill and up to \$90 per year. She added that in order for the District to comply with Prop. 218 and related legal requirements, the District may not use revenue from one class of customers to pay or subsidize the costs of another class of customers, therefore the District will use non-rate revenue to pay for the low-income rate assistance program. She noted miscellaneous revenue from rents and leases which includes District rental properties, grazing leases and the Indian Valley Golf Club Leases and Pacheco Valle Tennis Courts are the revenue sources and amount to approximately \$85,000 annually.

Director Baker asked where did this start and asked if we currently have the option to decrease a customer's water bill. He stated that he does not remember discussing the topic before or seeing it on an agenda. Mr. McIntyre responded that it has been discussed over time and it is mentioned in the rate study. Ms. Blue confirmed that it is a line item in the rate study. She added that this has come up time to time in reference to customers on fixed incomes, the District has

received phone calls and it will continue to be requested until a program in place. Mr. Blue stated that she did a survey with other water agencies to review their programs and what we are proposing is modest in comparison. She added that the State Water Resources Control Board is also looking at enacting a statewide program. Director Baker commented that it would be nice to have a bar chart to see the comparisons. Ms. Blue replied that the information is in table format, and the programs vary greatly, many use the median Marin County Housing Urban Development as a baseline. Ms. Blue noted that each agency had various methodologies, some if disabled, some based on the PG&E Care Program, and she was trying to pick a simple program that we could expand on in the future.

Director Fraites noted that the third bullet on the memo requires the customer to notify us. Ms. Blue replied that they will need to confirm that they qualify for the program and will have to recertify every other year. Director Fraites asked the time line for the CARE Program. Ms. Blue responded that they would need to prove it every two years. Director Joly pointed out that 800 customers at \$90 a year could be as high as \$72,000. Ms. Blue agreed it could go that high, and added that we want to be conservative, noting the revenue sources have variability. She stated that we would want to see how it does the first couple of years and then revisit it. Director Joly commented that the memo was splendid and the high percentage increase was based on the fix rate increase and not part of the variable use of water which is regressive. Ms. Blue replied it balances out. Mr. McIntyre added that he has no doubt there will be a state mandated policy and the state is doing another big push now. He stated we don't know what type of program the state will implement, but our program simplifies staff burden and perhaps the state will allow districts that have programs in place to keep them. Mr. McIntyre added it is coming down the road one way or another.

On the motion of Director Petterle, and seconded by Director Fraites the Board approved the Low-Income Rate Assistance Program Policy by the following vote:

AYES: Director Fraites, Grossi, Joly, and Petterle

NOES: None

ABSTAIN: Director Baker

ABSENT: None

#### **AUTHORIZE ASSISTANT GENERAL MANAGER/CHIEF ENGINEER RECRUITMENT**

Mr. McIntyre advised the Board that with the recent resignation of Chief Engineer Rocky Vogler, he is requesting that the Board appoint him as acting Chief Engineer to ensure consistent

287 handling of matters specifically requiring approval of the Chief Engineer. Mr. McIntyre also  
288 announced in the interim Associate Engineer Carmela Chandrasekera will be acting Senior  
289 Engineer and retired Associate Engineer Dave Jackson has agreed to work on a part time basis to  
290 help cover the workload. Mr. McIntyre added that options are to recruit for a Chief Engineer or  
291 Assistant General Manager/Chief Engineer. He stated that it was his recommendation to recruit for  
292 an Assistant General Manager/Chief Engineer to improve future succession planning options. He  
293 added that if approved, next year's budget would be increased about \$14,100 including benefits.

294 Director Baker commented that he knows how competitive the salaries are out there and was  
295 wondering how ours stood. Mr. McIntyre responded that we have had some recent salary increases  
296 and he feels that we will be competitive. Director Petterle noted it was competitive with the same job  
297 description at the County of Marin. Director Joly thanked everyone for taking on the extra  
298 responsibilities.

299 On the motion of Director Grossi, and seconded by Director Petterle the Board approved  
300 recruitment for the Assistant General Manager/Chief Engineer Position by the following vote:

301 AYES: Director Baker, Fraites, Grossi, Joly, and Petterle

302 NOES: None

303 ABSTAIN: None

304 ABSENT: None

305 **MISCELLANEOUS**

306 The Board received the following miscellaneous items: Disbursements – Dated February 20,  
307 2020, Disbursements – Dated February 27, 2020 and Sonoma Water Russian River-Cotati  
308 Aqueduct Emergency Repairs.

309 The Board received the following news articles: Complex slate of hikes proposed for rates,  
310 Fees –NORTH MARIN WATER DISTRICT; Dozens of high-risk Bay Area dams lack required  
311 emergency plans; California Drought: Northern California having driest February since 1864; City  
312 exempts 9-unit townhome project from affordability rule

313 **CLOSED SESSION**

314 President Joly adjourned the regular session at 7:38 p.m. and the Board began the closed  
315 session at 7:44 p.m. in accordance with California Government Code Section 54957 (b)(1), PUBLIC  
316 EMPLOYEE PERFORMANCE EVALUATION (General Counsel).

317 **OPEN SESSION**



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**NORTH MARIN WATER DISTRICT**  
**MONTHLY PROGRESS REPORT FOR February 2020**  
 March 17, 2020

1.

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

Month	FY19/20	FY18/19	FY17/18	FY16/17	FY15/16	20 vs 19 %
July	317.2	341.1	331.0	310.3	227.2	-7%
August	283.8	300.9	303.0	299.6	235.2	-6%
September	280.5	255.0	292.4	302.3	210.0	10%
October	281.0	265.6	273.7	202.8	298.6	6%
November	222.7	170.1	163.9	143.8	145.4	31%
December	141.2	157.8	152.1	147.6	145.1	-10%
January	111.9	114.7	130.6	120.8	129.8	-2%
February	120.3	110.9	134.8	118.6	111.3	8%
FYTD Total	1,758.6	1,716.0	1,781.4	1,645.8	1,502.7	2%

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

Month	FY19/20	FY18/19	FY17/18	FY16/17	FY15/16	20 vs 19 %
July	8.9	10.2	9.5	7.9	6.6	-13%
August	8.4	9.9	8.8	7.4	7.0	-16%
September	7.8	9.5	8.4	6.4	6.4	-18%
October	7.3	8.3	7.9	5.2	6.5	-11%
November	6.7	7.3	5.4	4.2	4.7	-7%
December	4.8	5.7	5.1	3.7	3.9	-15%
January	4.1	5.0	4.5	3.6	3.7	-16%
February	4.4	3.5	4.5	3.3	3.8	25%
FYTD Total	52.5	59.3	54.1	41.7	42.7	-12%

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

Month	FY19/20	FY18/19	FY17/18	FY16/17	FY15/16	20 vs 19 %
July	67.7	78.6	112.6	69.9	107.6	-14%
August	100.5	79.3	81.5	90.4	79.4	27%
September	115.0	60.5	122.7	96.9	38.3	90%
October	98.4	74.5	102.3	93.9	49.5	32%
November	99.2	0.0	53.6	63.8	58.3	-
December	0.0	0.0	0.0	0.0	0.0	-
January	0.0	0.0	0.0	0.0	0.0	-
February	0.0	0.0	0.0	0.0	0.0	-
FYTD Total	480.7	292.9	472.6	415.0	333.0	64%

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

Month	FY19/20	FY18/19	FY17/18	FY16/17	FY15/16	20 vs 19 %
July	36.5	30.2	27.7	27.1	21.3	21%
August	33.3	30.6	26.1	26.0	26.2	9%
September	29.7	33.5	25.0	23.5	15.7	-12%
October	26.6	20.1	19.1	8.3	15.8	32%
November	10.8	12.7	2.5	1.2	3.2	-14%
December	0.5	1.5	0.8	0.4	0.8	-63%
January	0.6	0.9	1.0	0.3	0.2	-38%
February	0.6	0.3	3.3	0.0	0.6	82%
FYTD Total*	138.6	129.7	105.5	86.8	83.8	7%

\*Excludes potable water input to the RW system: FY20=9.8 MG; FY19=19.8 MG; FY18=15.35MG; FY17=1.4MG; FY16=7.4MG

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**2. Stafford Lake Data**

	February Average	February 2019	February 2020
Rainfall this month	5.13 Inches	13.18 Inches	0 Inches
Rainfall this FY to date	20.86 Inches	29.15 Inches	15.54 Inches
Lake elevation*	191.7 Feet	198.6 Feet	191.0 Feet
Lake storage**	1091 MG	1597 MG	1041 MG

\* Spillway elevation is 196.0 feet

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

**Temperature (in degrees)**

	<b>Minimum</b>	<b>Maximum</b>	<b>Average</b>
February 2019 (Novato)	35	66	50
February 2020 (Novato)	40	87	60

**3. Number of Services**

<b>February 28</b>	<b>Novato Water</b>			<b>Recycled Water</b>			<b>West Marin Water</b>			<b>Oceana Marin Swr</b>		
	FY20	FY19	Incr %	FY20	FY19	Incr %	FY20	FY19	Incr %	FY20	FY19	Incr %
Total meters installed	20,749	20,750	0.0%	97	96	1.0%	791	791	0.0%	-	-	-
Total meters active	20,546	20,540	0.0%	92	92	0.0%	783	783	0.0%	-	-	-
Active dwelling units	24,072	24,077	0.0%	-	0	-	833	833	0.0%	234	234	0.0%

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

<b>Description</b>	<b>February 2019</b>	<b>February 2020</b>
Effluent Flow Volume (MG)	1.180	0.406
Irrigation Field Discharge (MG)	0.347	0.692
Treatment Pond Freeboard (ft)	6.0	7.0
Storage Pond Freeboard (ft)	6.6	7.1

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

<b>Job No.</b>	<b>Project</b>	<b>% Complete</b>	<b>% This month</b>
1.2807.00	Hamilton Cottages (Hamilton Parkway)	96	1
1.2817.03	College of Marin – New Miwok Center	7	1
1.2823.00	Avesta (Hamilton Parkway.)	91	1
1.2795.00	McPhails (HWY 101 at SR 37)	85	20
1.2828.00	Jonas Center (COM)	10	4
1.2820.00	Bahia Heights (Topaz Dr. at Misty Ct.)	5	2
1.2829.00	NUSD GMO Facility (C-Street)	80	5

**District Projects Status Report - Const. Dept. (February)**

<b>Job No.</b>	<b>Project</b>	<b>% Complete</b>	<b>% This month</b>
1.6112.24	Lynwood Pump Station MCC	16	1
2.6263.20	Replace PRE Tank 4A	8	2
1.7150.00	San Mateo Tank Inlet/Outlet	10	0
1.7007.13	DCA Replacement	90	75
1.7123.26	PB Replace MCCE	85	5
1.7183.00	Replace Plastic 4-inch –Scown Lane	7	0
1.7139.22	Hatch Road – PB Replacement	45	45

**Employee Hours to Date, FY 19/20**

As of Pay Period Ending February 29, 2020

Percent of Fiscal Year Passed = 67%

<b>Developer Projects</b>	<b>Actual</b>	<b>Budget</b>	<b>% YTD Budget</b>	<b>District Projects</b>	<b>Actual</b>	<b>Budget</b>	<b>% YTD Budget</b>
Construction	1,932	1,400	138%	Construction	1,678	3,740	45%
Engineering	1,204	1,504	80%	Engineering	1,375	3,096	44%

## 6. Safety/Liability

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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) (\$)
11	\$4,424	2	2	0	\$0
6	\$2,160	1	1	7	\$8,476

FY 20 through February

FY 19 through February

Days without a lost time accident through February 29, 2020 41 Days

## 7. Energy Cost

FYE	February			Fiscal Year-to-Date thru February		
	kWh	¢/kWh	Cost/Day	kWh	¢/kWh	Cost/Day
2020 Stafford TP	53,266	21.0¢	\$361	589,089	19.0¢	\$460
Pumping	82,274	23.6¢	\$648	988,663	23.4¢	\$944
Other*	46,350	24.7¢	\$382	380,194	25.6¢	\$397
	181,891	23.1¢	\$1,391	1,957,946	22.5¢	\$1,801
2019 Stafford TP	20,052	24.9¢	\$178	403,455	20.4¢	\$409
Pumping	67,263	20.7¢	\$434	993,568	20.7¢	\$984
Other*	50,943	20.2¢	\$322	375,259	24.3¢	\$454
	138,258	21.1¢	\$934	1,772,282	21.4¢	\$1,847
2018 Stafford TP	52,998	19.7¢	\$373	432,259	19.5¢	\$347
Pumping	73,325	20.3¢	\$497	977,043	21.0¢	\$843
Other*	34,949	22.5¢	\$262	338,366	24.9¢	\$349
	161,272	20.6¢	\$1,132	1,747,668	21.4¢	\$1,539

\*Other includes West Marin Facilities

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## 8. Water Conservation Update

	Month of February 2020	Fiscal Year to Date	Program Total to Date
High Efficiency Toilet (HET) Rebates	18	100	4149
Retrofit Certificates Filed	16	128	6370
Cash for Grass Rebates Paid Out	0	9	930
Washing Machine Rebates	1	7	6804
Water Smart Home Survey	11	129	3876

## 9. Utility Performance Metric

SERVICE DISRUPTIONS (No. of Customers Impacted)	February 2020	February 2019	Fiscal Year to Date 2020	Fiscal Year to Date 2019
PLANNED				
Duration Between 0.5 and 4 hours	3	8	32	56
Duration Between 4 and 12 hours			96	83
Duration Greater than 12 hours				
UNPLANNED				
Duration Between 0.5 and 4 hours	2	4	53	45
Duration Between 4 and 12 hours			12	
Duration Greater than 12 hours				2
SERVICE LINES REPLACED				
Polybutylene	1	2	8	75
Copper (Replaced or Repaired)	2	1	41	7

# NORTH MARIN WATER DISTRICT

## Summary of Complaints & Service Orders February 2020

3/10/2020

Type	Feb-20	Feb-19	Action Taken February 2020
<b><u>Consumers' System Problem</u></b>			
Service Line Leaks	29	29	Notified Consumer
Noisy Plumbing	0	1	Notified Consumer
Seepage or Other	1	0	Notified Consumer
House Valve / Meter Off	9	4	Notified Consumer
Nothing Found	9	12	Notified Consumer
High Pressure	1	1	Pressure at 120 PSI. PRV failed. Recommended repairs.
<b>Total</b>	<b>49</b>	<b>47</b>	
<b><u>Service Repair Reports</u></b>			
Meter Replacement	1	4	Replaced
Meter Box Alignment	0	1	Repaired
Box and Lids	1	2	Repaired
Water Off/On Due To Repairs	7	12	Notified Consumer
Misc. Field Investigation	12	9	Notified Consumer
<b>Total</b>	<b>21</b>	<b>28</b>	
<b><u>Leak NMWD Facilities</u></b>			
Service- Leak	3	5	Repaired
Services-Nothing Found	1	3	Notified Consumer
Fire Hydrant-Leak	1	0	Repaired
Fire Hydrants-Nothing Found	1	0	Notified Consumer
Meter Leak	2	0	Repaired
Meters-Nothing Found	0	1	Notified Consumer
Meters Damaged	1	0	Repaired
Washer Leaks	2	3	Repaired
<b>Total</b>	<b>11</b>	<b>12</b>	
<b><u>High Bill Complaints</u></b>			
Consumer Leaks	2	2	Notified Consumer
Meter Testing	1	0	Notified Consumer
Meter Misread	1	0	Notified Consumer
Nothing Found	0	6	Notified Consumer
<b>Total</b>	<b>4</b>	<b>8</b>	
<b><u>Low Bill Reports</u></b>			
Nothing Found	0	1	Notified Consumer
<b>Total</b>	<b>0</b>	<b>1</b>	
<b><u>Water Quality Complaints</u></b>			
Taste and Odor	0	2	Notified Consumer
Other	0	2	Notified Consumer
<b>Total</b>	<b>0</b>	<b>4</b>	
<b>TOTAL FOR MONTH:</b>	<b>85</b>	<b>100</b>	<b>-15%</b>

# NORTH MARIN WATER DISTRICT

## Summary of Complaints & Service Orders February 2020

3/10/2020

Type	Feb-20	Feb-19	Action Taken February 2020	
<b><u>Fiscal YTD Summary</u></b>			<b><u>Change Primarily Due To</u></b>	
Consumer's System Problems	520	559	-7%	Decrease In Nothing Found.
Service Repair Report	160	192	-17%	Decrease In Water Off/On Due to Repairs
Leak NMWD Facilities	115	141	-18%	Decrease In Service Leaks.
High Bill Complaints	69	197	-65%	Decrease In Nothing Found.
Low Bills	0	4	-100%	Decrease in Meter Misreads.
Water Quality Complaints	15	22	-32%	Decrease in Other.
Total	<u>879</u>	<u>1,115</u>	<u>-21%</u>	

### **"In House" Generated and Completed Work Orders**

<b><u>Check Meter:</u></b> possible consumer/District leak, high bill, flooded, need read, etc.	119	46
<b><u>Change Meter:</u></b> leaks, hard to read	18	59
<b><u>Possible Stuck Meter</u></b>	1	0
<b><u>Repair Meter:</u></b> registers, shut offs	3	0
<b><u>Replace Boxes/Lids</u></b>	22	0
<b><u>Trims</u></b>	2	0
<b><u>Dig Outs</u></b>	10	3
	<u>175</u>	<u>108</u>

### **Bill Adjustments Under Board Policy: February 20 vs. February 19**

Feb-20	16	\$10,925
Feb-19	19	\$19,869

### **Fiscal Year vs Prior FY**

FY 19/20	217	\$65,148
FY 18/19	235	\$85,649

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## MEMORANDUM

To: Board of Directors

March 13, 2020

From: Julie Blue, Auditor-Controller *JB*  
Nancy Holton, Senior Accountant *NH*

Subj: Auditor-Controller's Monthly Report of Investments for February 2020  
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**RECOMMENDED ACTION:** Information

**FINANCIAL IMPACT:** None

At month end the District's Investment Portfolio had an amortized cost value (i.e., cash balance) of \$22,987,302 and a market value of \$23,020,375. During February the cash balance decreased by \$591,932. The market value of securities held increased \$33,073 during the month. The ratio of total cash to budgeted annual operating expense stood at 132%, down 4% from the prior month.

At February 29, 2020, 62% of the District's Portfolio was invested in California's Local Agency Investment Fund (LAIF), 24% in Time Certificates of Deposit, 8% in US Treasury Notes, 5% in the Marin County Treasury, and 1% retained locally for operating purposes. The weighted average maturity of the portfolio was 93 days, compared to 100 days at the end of January. The LAIF interest rate for the month was 1.91%, compared to 1.97% the previous month. The weighted average Portfolio rate was 2.10%, compared to 2.13% the previous month.

Investment Transactions for the month of February are listed below:

2/20/2020	LAIF	US Bank	\$125,000.00	Trsf from LAIF account
2/24/2020	Discover Bank	US Bank	\$249,957.91	TCD Matured
2/27/2020	LAIF	US Bank	\$110,000.00	Trsf from LAIF account

**NORTH MARIN WATER DISTRICT**  
**AUDITOR-CONTROLLER'S MONTHLY REPORT OF INVESTMENTS**  
**February 29, 2020**

Type	Description	S&P Rating	Purchase Date	Maturity Date	Cost Basis <sup>1</sup>	2/29/2020 Market Value	Yield <sup>2</sup>	% of Portfolio
<b>LAIF</b>	State of CA Treasury	AA-	Various	Open	\$14,362,584	\$14,388,010	1.91% <sup>3</sup>	<b>62%</b>
<b>Time Certificate of Deposit</b>								
TCD	Wells Fargo Bank	n/a	3/28/18	3/30/20	248,000	248,000	2.55%	1%
TCD	Citibank	n/a	4/11/18	4/13/20	246,000	246,000	2.55%	1%
TCD	UBS Bank	n/a	5/30/18	6/1/20	249,000	249,000	2.70%	1%
TCD	Enerbank	n/a	6/18/18	5/18/20	249,000	249,000	2.75%	1%
TCD	BMW Bank	n/a	6/15/18	6/15/20	246,000	246,000	2.75%	1%
TCD	Bank of America	n/a	8/15/18	8/17/20	246,000	246,000	2.75%	1%
TCD	Ally Bank	n/a	9/28/18	9/28/20	246,000	246,000	2.80%	1%
TCD	Barclays Bank	n/a	11/14/18	11/16/20	246,000	246,000	3.00%	1%
TCD	CIT Bank	n/a	12/17/18	12/17/20	246,000	246,000	3.00%	1%
TCD	Reliance Bank	n/a	1/11/19	1/11/21	249,000	249,000	2.70%	1%
TCD	Iberia Bank	n/a	1/25/19	1/25/21	246,000	246,000	2.70%	1%
TCD	Merrick Bank	n/a	2/8/19	2/8/21	249,000	249,000	2.60%	1%
TCD	Eaglebank	n/a	3/15/19	3/15/21	249,000	249,000	2.60%	1%
TCD	Central Bank	n/a	4/18/19	4/19/21	249,000	249,000	2.40%	1%
TCD	Morgan Stanley Private Bank	n/a	5/23/19	5/24/21	247,000	247,000	2.40%	1%
TCD	TIAA Bank	n/a	1/18/19	7/19/21	246,000	246,000	2.75%	1%
TCD	Capital One Bank NA	n/a	8/21/19	8/23/21	247,000	247,000	1.85%	1%
TCD	Capital One Bank USA	n/a	9/6/19	9/7/21	247,000	247,000	1.75%	1%
TCD	Goldman Sachs Bank USA	n/a	10/11/19	10/12/21	247,000	247,000	1.70%	1%
TCD	Flagstar Bank	n/a	11/15/19	11/15/21	247,000	247,000	1.75%	1%
TCD	Synovus Bank	n/a	12/9/19	12/9/21	247,000	247,000	1.65%	1%
TCD	Morgan Stanley Bank	n/a	1/16/20	1/18/22	247,000	247,000	1.75%	1%
					<b>\$5,439,000</b>	<b>\$5,439,000</b>	<b>2.43%</b>	<b>24%</b>
<b>US Treasury Notes</b>								
Treas	2.250%	n/a	7/26/18	3/31/20	999,740	1,000,625	2.55%	4%
Treas	2.750%	n/a	3/5/19	9/30/20	1,001,247	1,008,008	2.76%	4%
					<b>\$2,000,986</b>	<b>\$2,008,633</b>	<b>2.66%</b>	<b>8%</b>
<b>Other</b>								
Agency	Marin Co Treasury	AAA	Various	Open	\$1,052,438	\$1,052,438	2.22%	5%
Other	Various	n/a	Various	Open	132,293	132,293	0.41%	1%
<b>TOTAL IN PORTFOLIO</b>					<b>\$22,987,302</b>	<b>\$23,020,375</b>	<b>2.10%</b>	<b>100%</b>

Weighted Average Maturity = **93 Days**

LAIF: State of California Local Agency Investment Fund.

TCD: Time Certificate of Deposit, Treas: US Treasury Notes with maturity of 5 years or less.

Agency: STP State Revolving Fund Loan Reserve.

Other: Comprised of 5 accounts used for operating purposes. US Bank Operating Account, US Bank STP SRF Loan Account, US Bank FSA Payments Account, Bank of Marin AEEP Checking Account & NMWD Petty Cash Fund.

<sup>1</sup> Original cost less repayment of principal and amortization of premium or discount.

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

<sup>3</sup> Earnings are calculated daily - this represents the average yield for the month ending February 29, 2020.

<b>Interest Bearing Loans</b>	Loan Date	Maturity Date	Original Loan Amount	Principal Outstanding	Interest Rate
StoneTree Golf Loan	6/30/06	2/28/24	\$3,612,640	\$0	2.40%
Marin Country Club Loan	1/1/18	11/1/47	\$1,265,295	\$1,186,071	1.00%
Employee Housing Loans (2)	Various	Various	525,000	525,000	Contingent
<b>TOTAL INTEREST BEARING LOANS</b>			<b>\$5,402,935</b>	<b>\$1,711,071</b>	

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

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**7**

## MEMORANDUM

To: Board of Directors  
From: Drew McIntyre, General Manager/Acting Chief Engineer  
Subject: Water Service Agreement – 7380 Redwood Blvd, Jerry's Delicatessen Fire Service, APN: 153-044-03

March 13, 2020

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**RECOMMENDED ACTION:** The Board approve authorization of this agreement.**FINANCIAL IMPACT:** None: Developer Funded

The project is located at 7380 Redwood Blvd (see attached map). Due to tenant improvements Novato Fire Protection District has required that a 4 head, 13D sprinkler system be installed. To meet the 4 head, 13D calculation a 4-inch fire service will be provided. There is no landscaping for this project.

New water facilities required include 15 feet of 4-inch PVC pipe, one 6-foot steel spool and one 4-inch above grade vertically installed Wilkins 350 DCDA fire service. The existing 5/8-inch domestic meter will be upsized to a 1-inch meter and a 1-inch RP backflow prevention device will be installed. The new water facilities will connect to a 6-inch water main that will replace the existing 2-inch thin walled plastic pipe on Scown Lane as part of a FY 19/20 District capital improvement project. Normal pressure Zone 1 water service will continue to be provided to the project.

Water service to this parcel was established in 1950. Per Regulation 1, review of the historical water use for this service has established an entitlement of 1 EDU. Future water demand is estimated to be 1 Equivalent Dwelling Unit (EDU). Therefore, the project will not add new water demand and no additional facility reserve charges (FRCs) are due at this time.


Sewer service is provided by the Novato Sanitary District.

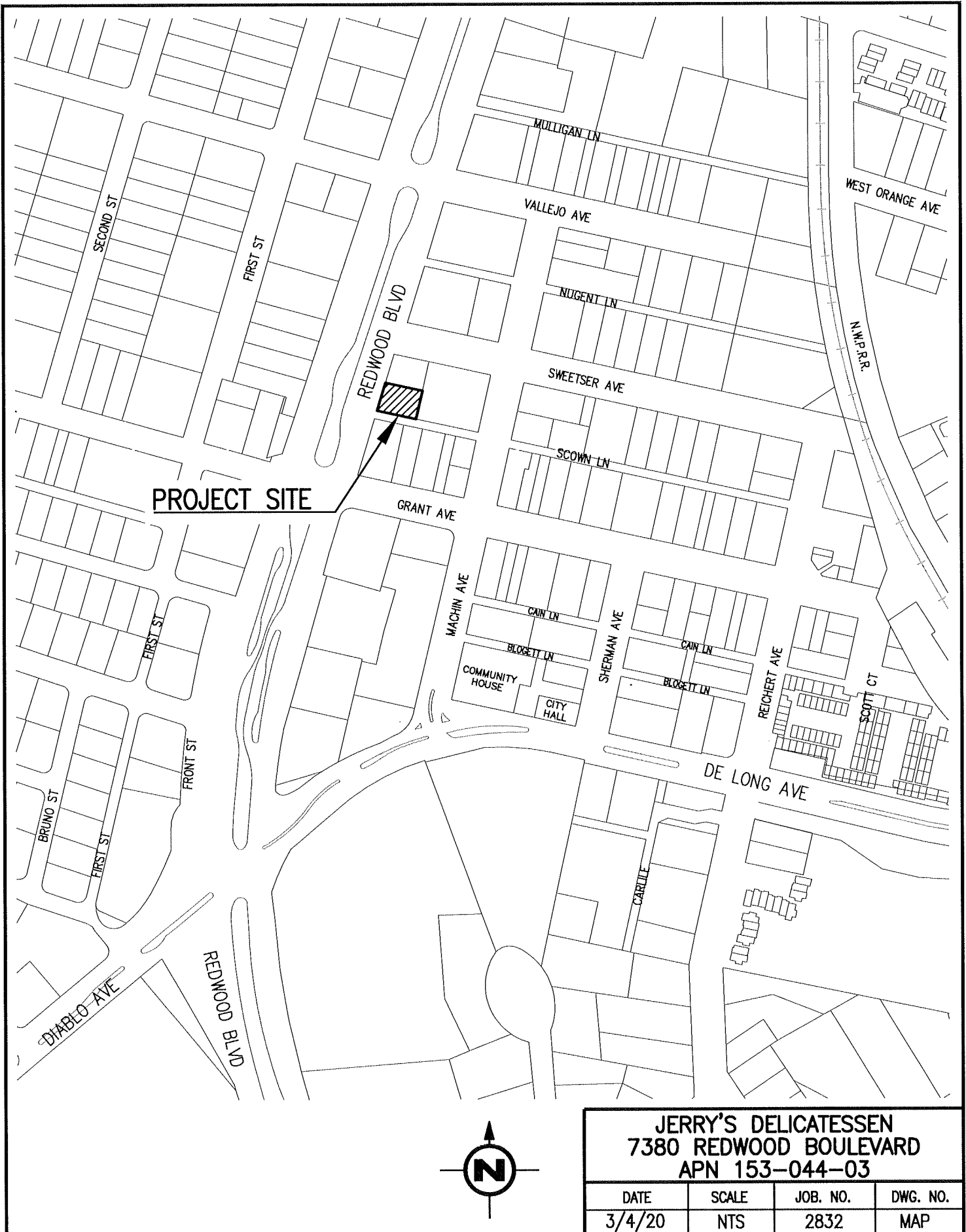
**RECOMMENDATION:**

That the Board approve authorization of this agreement.

Approved by GM

Date

  
3/13/20



**JERRY'S DELICATESSEN**  
**7380 REDWOOD BOULEVARD**  
**APN 153-044-03**

DATE	SCALE	JOB. NO.	DWG. NO.
3/4/20	NTS	2832	MAP

RESOLUTION NO. 20-  
AUTHORIZATION OF EXECUTION  
OF  
WATER SERVICE FACILITIES CONSTRUCTION AGREEMENT  
WITH  
JERRY'S DELICATESSEN – FIRE SERVICE

---

BE IT RESOLVED by the Board of Directors of NORTH MARIN WATER DISTRICT that the President and Secretary of this District be and they hereby are authorized and directed for and on behalf of this District to execute that certain water service facilities construction agreement between this District and Redwood-Novato LLC, an applicant, providing for the installation of water distribution facilities to provide domestic water service to that certain real property known as 7380 Redwood Blvd., Novato, Marin County Assessor's Parcel Number 153-044-03, NOVATO, CALIFORNIA.

\* \* \*

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 17th day of March, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

(SEAL)

---

Theresa Kehoe, Secretary  
North Marin Water District

PART ONE  
WATER SERVICE FACILITIES CONSTRUCTION AGREEMENT  
FOR  
JERRY'S DELICATESSEN - FIRE SERVICE

---

*THIS AGREEMENT*, which consists of this Part One and Part Two, Standard Provisions, attached hereto and a part hereof, is made and entered into as of \_\_\_\_\_, 2020, by and between NORTH MARIN WATER DISTRICT, herein called "District," and REDWOOD-NOVATO LLC, A Limited Liability Company, herein called "Applicant."

*WHEREAS*, the Applicant, pursuant to District Regulation 1, the State of California Subdivision Map Act and all applicable ordinances of the City of Novato and/or the County of Marin, has pending before the City or County a conditionally approved Tentative Subdivision Map, Precise Development Plan, Tentative Parcel Map or other land use application for the real property in the District commonly known as Marin County Assessor's Parcel Number 153-044-03 and the project known as JERRY'S DELICATESSEN – FIRE SERVICE, consisting of one (1) lot for commercial development; and

*WHEREAS*, prior to final approval by the City or County of a Subdivision Map, Precise Development Plan, Parcel Map or other land use application and recording of a final map for the project, the Applicant shall enter into an agreement with the District and complete financial arrangements for water service to each lot, unit or parcel of the project; and

*WHEREAS*, the Applicant is the owner of real property in the District commonly known as 7380 Redwood Blvd., Novato (Marin County Assessor's Parcel 153-044-03); and

*WHEREAS*, the District established water service to the 7380 Redwood Blvd. property (153-044-03) on October 16, 1950 for a 5/8-inch meter; and

*WHEREAS*, the ten year average historical use establishes entitlement of one (1) EDU per Regulation 1; and

*WHEREAS*, future water use is estimated not to exceed one (1) EDU; and

*NOW THEREFORE*, the parties hereto agree as follows:

1. The Applicant hereby applies to the District for water service to said real property and project and shall comply with and be bound by all terms and conditions of this agreement, the District's regulations, standards and specifications and shall construct or cause to be constructed the water facilities required by the District to provide water service to the real property and project. Upon

acceptance of the completed water facilities, the District shall provide water service to said real property and project in accordance with its regulations from time to time in effect.

2. Prior to the District issuing written certification to the City, County or State that financial arrangements have been made for construction of the required water facilities, the Applicant shall complete such arrangements with the District in accordance with Section 5 of this agreement.

3. Prior to release or delivery of any materials by the District or scheduling of either construction inspection or installation of the facilities by the District, the Applicant shall:

a. deliver to the District vellum or mylar prints of any revised utility plans approved by the City or County to enable the District to determine if any revisions to the final water facilities construction drawings are required. The proposed facilities to be installed are shown on Drawing No. 1 2832.001, entitled, "JERRY'S DELICATESSEN – FIRE SERVICE", a copy of which is attached, marked Exhibit "A", and made a part hereof. (For purposes of recording, Exhibit "A" is not attached but is on file in the office of the District.)

b. grant or cause to be granted to the District without cost and in form satisfactory to the District all easements and rights of way shown on Exhibit "A" or otherwise required by the District for the facilities.

c. deliver to the District a written construction schedule to provide for timely withdrawal of guaranteed funds for ordering of materials to be furnished by the District and scheduling of either construction inspection or construction pursuant to Section 5 hereof.

4. Except for fire service, new water service shall be limited to the number and size of services for which Initial Charges are paid pursuant to this agreement. Initial Charges for new services, estimated District costs and estimated applicant installation costs are as follows:

#### **Initial Charges**

Meter Charges (Included in Estimated District Costs).....	One 1-inch @	\$ 0.00	\$ 0.00
Reimbursement Fund Charges (Domestic).....	One 1-inch @	\$ 1,055.00	\$ 1,055.00
Facilities Reserve Charges (1 EDU Domestic).....	One @	\$ 28,600.00	\$ 28,600.00
Credit for Existing (1 EDU-FRC).....	@	\$	\$ <28,600.00>
Credit for Existing (5/8" meter) – RFC.....	@	\$	\$ <420.00>
<b>Subtotal - Initial Charges.....</b>			<b>\$ 635.00</b>

#### **Estimated District Costs**

Pipe, Fittings & Appurtenances.....	\$ 4,475.00
District Construction Labor.....	\$ 11,724.00
Engineering & Inspection.....	\$ 1,564.00
Bulk Materials.....	\$ 841.00
<b>Subtotal –Estimated District Costs.....</b>	<b>\$ 18,604.00</b>



**Estimated Applicant Installation Costs**

Installation Labor.....	\$	0.00
Contractor Furnished – Pipe Fittings & Appurtenances.....	\$	0.00
Bulk Materials.....	\$	0.00

**Subtotal- Estimated Applicant Installation Costs..... \$ 0.00**

**TOTAL ESTIMATED WATER FACILITIES COSTS..... \$ 19,239.00**

(Bulk materials are such items as crushed rock, imported backfill, concrete, reinforcing steel, paving materials, and the like, which are to be furnished by the contractor performing the work.)

5. Financial Arrangements to be made by the Applicant shall consist of the following:

**Initial Charges and Estimated District Costs**

The Applicant shall either pay to the District or provide a two (2) year irrevocable letter of credit in form satisfactory to the District and payable at sight at a financial institution in the Novato area the sum of Initial Charges and Estimated District Costs as set forth in Section 4 hereof in the amount of **\$19,239**. If the Applicant provides the two (2) year irrevocable letter of credit, the District shall immediately draw down Initial Charges and shall draw upon the remaining funds guaranteed by the letter at any time the District deems appropriate to recover the Estimated District Costs which normally will be at least thirty (30) days prior to the anticipated start of construction for the ordering of materials to be furnished by the District.

**Estimated Installation Costs**

**Installation By District:** Due to the proprietary nature of construction required to install said facilities, the District reserves the right to install the facilities utilizing District construction forces. The Applicant shall either pay to the District the total Estimated Installation Costs set forth in Section 4 hereof in the amount of **\$19,239** or shall include such amount in the irrevocable letter of credit provided for the Initial Charges and Estimated District Costs set forth first above. The District shall draw upon installation funds guaranteed by the letter at any time the District deems appropriate which normally will be at least thirty (30) days prior to the anticipated start of construction.

Whenever an irrevocable letter of credit is required by this agreement, the Applicant may substitute a certificate of deposit at a financial institution in the Novato area provided the certificate may be cashed at sight by the District at any time.

6. The applicant shall not resell any water furnished pursuant to this agreement. If multiple services from a single connection to the District's system through a master meter are allowed pursuant to District Regulation 4(b) the Applicant shall not submeter the individual services. The District's bills

for water measured by a master meter shall be paid by the Applicant or a responsible homeowner's association. If a rental unit served through a master meter is converted into a separately owned unit the District may require the installation of a separate connecting main and meter for water service to the unit at the cost of the owner of the unit.

7. Water service through the facilities to be installed pursuant to this agreement will not be furnished to any building unless the building is connected to a public sewer system or to a waste water disposal system approved by all governmental agencies having regulatory jurisdiction. This restriction shall not apply to temporary water service during construction.

8. New construction in the District's Novato service area is required to be equipped with high efficiency water conserving equipment and landscaping specified in Regulation 15 sections e. and f.

9. All estimated costs set forth in this agreement shall be subject to periodic review and revision at the District's discretion. In the event the Applicant has not completed financial arrangements with the District in accordance with Section 5 hereof prior to expiration of six (6) months from the date of this agreement, all Initial Charges and estimated costs set forth in Section 4 hereof shall be revised to reflect then current District charges and estimates. In the event the Applicant has not secured final land use approval for the project from the City of Novato or County of Marin, recorded a final map and diligently commenced construction of improvements required by those agencies and the District prior to expiration of one (1) year from the date of this agreement, the District may, at its option, either retract financial certifications issued to City, County and State agencies and terminate this agreement or require amendment of this agreement and review of all Initial Charges and estimated costs contained herein. The Applicant shall pay any balance due upon demand or furnish a guarantee of such payment satisfactory to the District.

10. All extensions of time granted by the City of Novato or the County of Marin for the Applicant to comply with conditions of land use approval or to construct improvements pursuant to a subdivision improvement agreement shall require concurrent extensions of this agreement and shall be cause for review and revision of all Initial Charges and estimated costs set forth in Section 4 hereof. The Applicant shall apply to the District for extension of this agreement prior to approval of the Applicant's requests for such extensions by either the City of Novato or the County of Marin.

11. This agreement shall bind and benefit the successors and assigns of the parties hereto; however, this agreement shall not be assigned by the Applicant without the prior written consent of the District. Assignment shall be made only by a separate document prepared by the District at the Applicant's written request.

**NORTH MARIN WATER DISTRICT**  
"District"

**ATTEST:**

---

Michael H Joly, President

---

Theresa Kehoe, Secretary

(SEAL)

**REDWOOD NOVATO LLC**  
A Limited Liability Company  
"Applicant"

(SEAL)

---

Kevin Joyce, Vice President

**NOTES:** *If the Applicant executing this agreement is a corporation, a certified copy of the bylaws or resolutions of the Board of Directors of said corporation authorizing designated officers to execute this agreement shall be provided.*

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

**ALL APPLICANT SIGNATURES MUST BE ACKNOWLEDGED BEFORE A NOTARY PUBLIC.**

8

## MEMORANDUM

To: Board of Directors

From: Drew McIntyre, General Manager/Acting Chief Engineer

Date: March 13, 2020

Subject: Plum Street Tank Property Exchange – Grant Deed

R:\Folders by Job Not\6000 jobs\6058 RW Central\Plum Street Tank\Land Exchange 2019\Plum St Tank Land Swap BOD Memo 3-17-20.docx

**RECOMMENDATION:** Board approve the Grant Deed to 15 Zandra Place  
(APN 143-101-19)

**FINANCIAL IMPACT:** None

At the October 18, 2016 meeting, the Board approved the Plum Street Tank property exchange between the North Marin Water District (NMWD) and adjacent parcel APN 143-101-19 (15 Zandra Place) owners, Jane Prosser and Eugene Rhim, as a mutual property trade benefiting both parties. As shown in Attachment 1, the 15 Zandra Place property owners gained an additional 180 sq. ft. strip of land (~40'x4.5') for landscaping purposes to help screen the District's Plum Street Recycled Water Tank. In return, the District gained a 163 sq. ft. crescent shape wedge (~34' in length) which provides improved access to and within the NMWD tank parcel. The property exchange was deemed to be an even trade (180 sq. ft. vs. 163 sq. ft.) with a net property increase or decrease value of zero.

It was recently brought to our attention that the North Marin Water District 180 sq. ft. land property conveyance was not recorded at the County with the original property owners at 15 Zandra Place. A new owner has since purchased the 15 Zandra Place property and owner, Mr. Aaron Parker, desires the same mutual property trade benefitting both parties. A new Grant Deed to formally approve conveyance of the District's 180 sq. ft. strip of land to the 15 Zandra Place owner is included (Attachment 2).

RECOMMENDATION

That the Board authorize the General Manager to execute the Grant Deed to 15 Zandra Place.

Approved by GM

Date

3/13/20





APN: 143-10-027

PLUM STREET  
RECYCLED WATER TANK  
500,000 GALLONS

TO 15 ZANDRA PLACE FROM NMWD  
180 SQ. FT.

TO NMWD FROM 15 ZANDRA PLACE  
163 SQ. FT.

APN: 143-65-008

NMWD AND 15 ZANDRA PLACE  
PROPERTY EXCHANGE

DATE	SCALE	JOB.NO.	DWG NO
10/12/16	N.T.S.		

ATTACHMENT 1

RESOLUTION NO. 20-xx

AUTHORIZATION OF EXECUTION OF PLUM STREET TANK SITE CORPORATION GRANT  
DEED (PORTION OF)

TO

AARON H. PARKER OF 15 ZANDRA PLACE

BE IT RESOLVED by the Board of Directors of NORTH MARIN WATER DISTRICT that the President and Secretary of this District be and they hereby are authorized and directed for and on behalf of this District to execute that certain Corporation Grant Deed to Aaron H. Parker (APN 143-650-08, 15 Zandra Place), as Grantee, and NORTH MARIN WATER DISTRICT, a public district, as Grantor, as part of a mutual agreement to exchange property of same value property between said parties.

\* \* \*

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 this 17<sup>th</sup> day of March, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

---

Theresa Kehoe, District Secretary  
North Marin Water District

(SEAL)

Recording requested by and  
When Recorded Mail To:

Aaron H. Parker  
15 Zandra Place  
Novato, CA 94945

Documentary Transfer Tax \$0.00  
(value less than \$100)

Record Without Fee Per G.C. 27383

A.P.N. 143-101-19

J-25 & 2587

Space above this line  
for Recorder's use

### **CORPORATION GRANT DEED**

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

**NORTH MARIN WATER DISTRICT, a public corporation organized and existing under the County Water District Law of the State of California**

hereby grants to

**Aaron H. Parker**

all of its right, title and interest in that real property in the City of Novato, County of Marin, State of California described in Exhibit A attached hereto and made a part hereof, and shown as Parcel 1 on Exhibit B attached hereto and made a part hereof.

Date: \_\_\_\_\_, 2020

NORTH MARIN WATER DISTRICT

By: \_\_\_\_\_  
Drew McIntyre, General Manager



North Marin Water District

Plum Tank Site  
Land Swap

Grant from NMWD to Aaron H. Parker

APN 143-101-19

### Exhibit A

A parcel of land in the City of Novato, County of Marin, State of California more particularly described as follows:

Beginning at the westerly terminus of the 45 foot radius curve in the southwesterly line of that certain parcel shown as "North Marin Water District 944 OR 84" as shown on the map of Rudnick Estates filed November 1, 2004 in Book 2004 of Maps at page 269, Marin County Records;

Thence, along the southwesterly line of said parcel, N 42° 37' 58" W 37.00 feet;

Thence, leaving said line, N 47° 22' 02" E 4.50 feet;

Thence S 42° 37' 58" E 43.36 feet to a point on said curve;

Thence, northwesterly along said curve, the center of which bears S 17° 02' 05" W with a radius of 45.00 feet through a central angle of 09° 55' 42" an arc length of 7.80 feet to the point of beginning.

This parcel contains approximately 180 square feet.



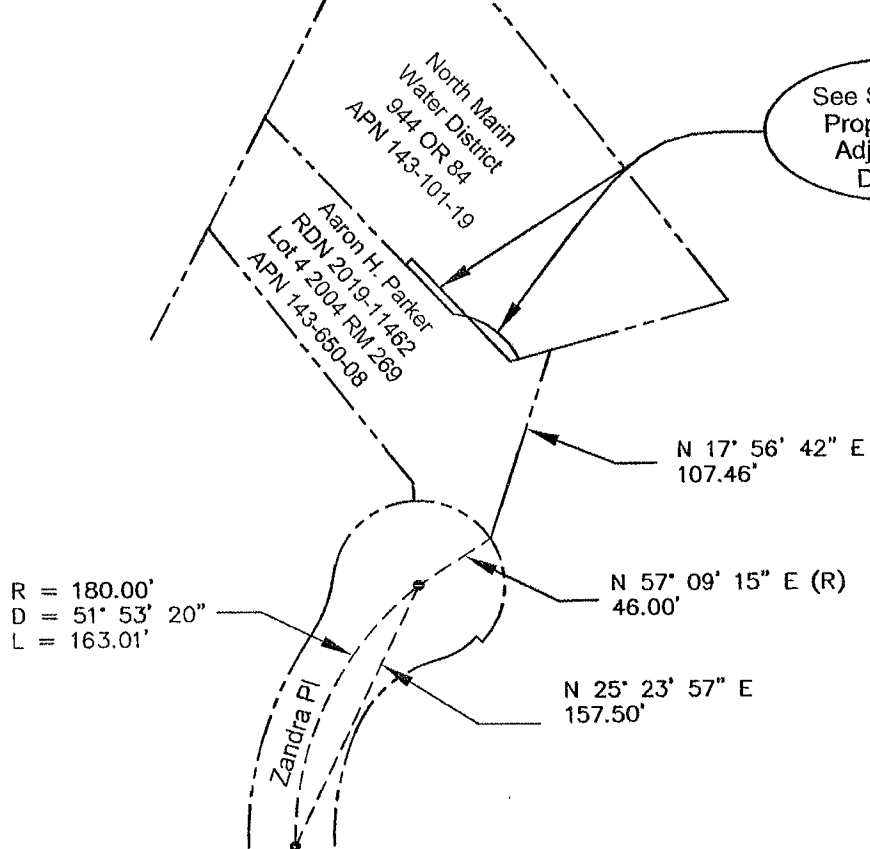
*Dale White*  
*9-12-19*

# Legend

- Existing Property Boundary
- Adjusted Property Boundary
- Street Monument  
2004 RM 269



Scale: 1" = 100'



See Sheet 2 for  
Property Line  
Adjustment  
Details

White & Prescott  
Engineering and Surveying  
1400 Grant Avenue  
Novato, CA

*Dale White*  
9-12-19

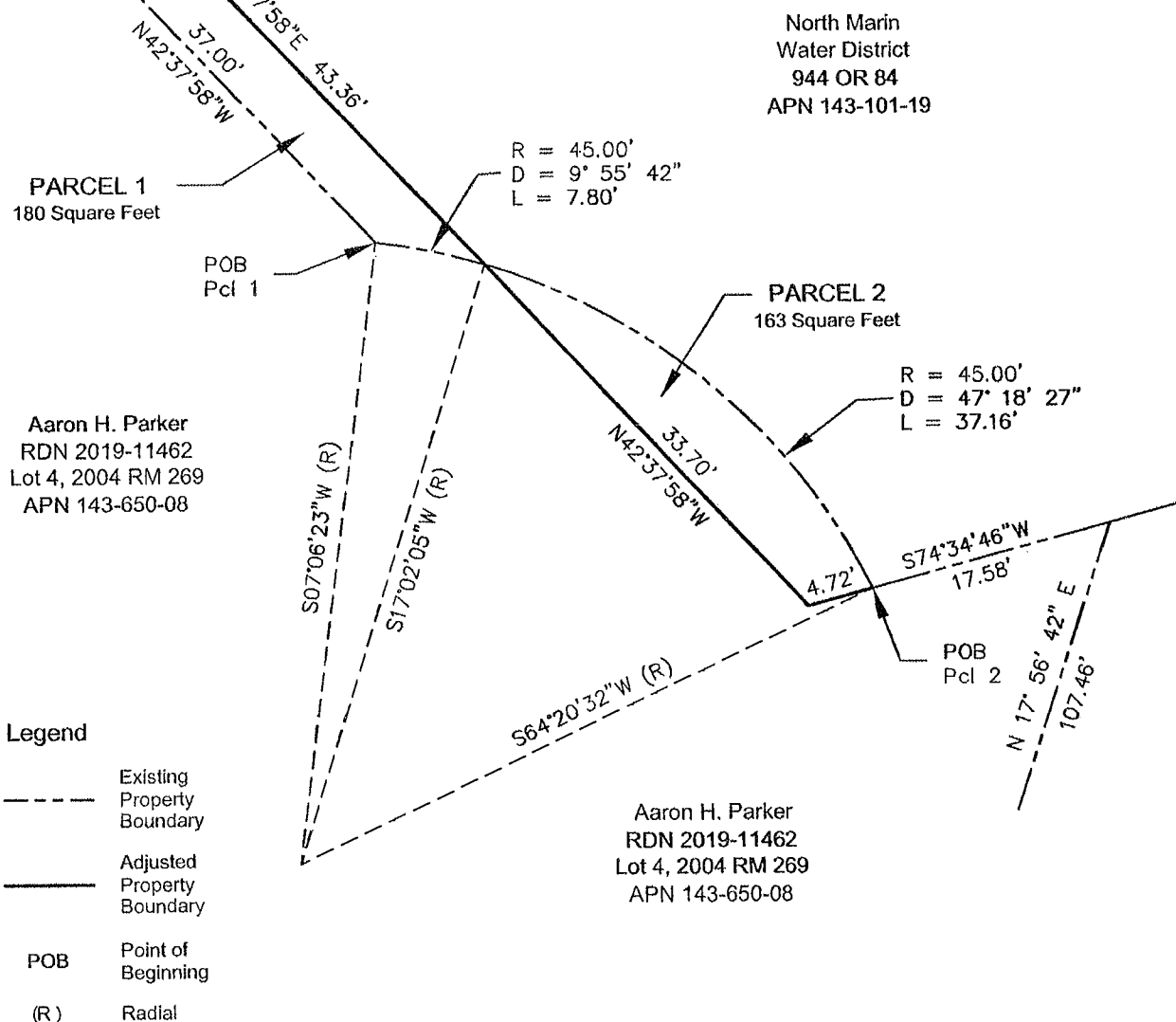


North Marin Water District  
Plum Tank Land Swap  
Exhibit B  
Sheet 1 of 2

# Notes

1. Parcel 1 is granted from the North Marin Water District to Aaron H. Parker.
2. Parcel 2 was granted from Jane Prosser and Eugene Rhim to the North Marin Water District by Grant Deed recorded October 20, 2016 as Recorder's Document No. 2016-48643, Marin County Records.

No Scale



White & Prescott  
Engineering and Surveying  
1400 Grant Avenue  
Novato, CA

*Dan White*  
9-12-19



North Marin Water District  
Plum Tank Land Swap

Exhibit B

Sheet 2 of 2

9

## MEMORANDUM

To: Board of Directors

March 13, 2020

From: Drew McIntyre, General Manager  
Julie Blue, Auditor/ControllerSubj: Authorize Affirmative Vote for SCWA FY21 Water Transmission System Budget  
t:\gm\2020 misc\scwa fy21 budget.docx**RECOMMENDED ACTION:** Authorize WAC Representative to vote in favor for SCWA FY21 Water Transmission System Budget**FINANCIAL IMPACT:** Approximately \$98,000 decrease in purchased water

Attached is the final draft of the Sonoma County Water Agency Water Transmission System budget for Fiscal Year 2020/21 (FY21). The budget proposes NMWD water purchases next fiscal year at \$1,001.00 per acre-foot, versus \$937.34 per acre-foot this current fiscal year (pg. 4). It was previously reported to the Board that SCWA's rate increase for NMWD is 6.79%. The SCWA budget is based on projected purchases of 5,250 AF versus 5,711 AF budgeted in FY20. The increase in water rates account for an increase in annual purchased water of \$364,000. This increase is offset by a reduction in the projected quantity purchased which reduces the expense by \$462,000. SCWA is forecasting future annual water rate increases between 4% and 6% for the water contractors but the NMWD increase can fall outside of this range. This is due to the contractual arrangement between SCWA and NMWD. Also attached is the historical rates charged by SCWA to NMWD which show a 10- year average rate increase of 4.34% with a high of 7.52% in FY11 and a low of -0.10% in FY14.

A TAC Ad Hoc subcommittee was formed in December to review and negotiate the budget with the Agency. The Ad Hoc subcommittee (which included Ms. Blue) met twice in January-February 2020 and the TAC unanimously approved the FY21 SCWA budget on March 2, 2020. A special WAC meeting will be held on April 6, 2020 to consider the budget. Absent any objections by Board members, it is my recommendation that the NMWD WAC representative, Director Baker, vote in favor of the budget as presented.

RECOMMENDATION

Board authorize WAC representative to vote in favor for FY21 SCWA Water Transmission System Budget.

## Water Transmission FY 2020-2021 Draft Budget and Rates

The draft proposed FY 2020-2021 rates are shown in the table below:

Charge / Aqueduct	Santa Rosa	Petaluma	Sonoma
Deliveries (Acre-Feet)	43,707		
O&M	\$656.51	\$656.51	\$656.51
Water Management Planning	\$0.92	\$0.92	\$0.92
Watershed Planning & Restoration	\$117.33	\$117.33	\$117.33
Recycled Water and Local Supply	\$0.94	\$0.94	\$0.94
Water Conservation	\$42.81	\$42.81	\$42.81
<b>Total O&amp;M</b>	<b>\$818.51</b>	<b>\$818.51</b>	<b>\$818.51</b>
Storage & Common Bond/Loan Charges	\$121.44	\$121.44	\$121.44
Sonoma Aqueduct Bond/Loan Charge			\$135.26
<b>Prime Contractors</b>	<b>\$939.95</b>	<b>\$939.95</b>	<b>\$1,075.21</b>
<u><b>Discretionary Charges</b></u>			
Capital Charges - to build fund balance for future projects	\$27.00	\$27.00	\$32.00
<b>Total Prime Contractors</b>	<b>\$966.95</b>	<b>\$966.95</b>	<b>\$1,107.21</b>
Total Overall Increase:	5.30%	5.30%	5.57%

### SUMMARY

- **Deliveries: (Budget Packet Pages 8-13):**
  - FY 2020-2021: rates are based on budgeted deliveries of **43,707 Acre-Feet (AF)**. Per the Restructured Agreement for Water Supply, rates are calculated using the lesser of: the average annual water deliveries for the past 36 months (44,795 AF) or the last 12 months of water deliveries (Calendar Year (CY) 2019: 43,707 AF). Actual deliveries for CY 2019 were 6.7% less than CY 2018: 46,830 AF. FY 2020-2021 budgeted deliveries are 0.37% less than FY 2019-2020 budgeted deliveries.
  - FY 2019-2020: budgeted deliveries for rate calculation were based on average annual water deliveries for the past 36 months (43,870 AF). Actual FY deliveries will be determined at the end of FY 2019-2020. Current trend indicates actuals may be at budget.
  - FY 2018-2019: budgeted deliveries were 41,768 AF. Actual deliveries were 43,971 AF (5.3% higher).
- **Operations and Maintenance (O&M) – Water Transmission O&M Fund (Budget Packet Pages 14-20):**
  - In accordance with the Restructured Agreement for Water Supply:
    - The rate is calculated by dividing operations and maintenance expenditures (less specific cash and noncash revenues and expenditures) by budgeted deliveries.



O&M Fund	Increase (Decrease) in Dollars	Percent Change	Description
Rate per AF	\$41.31	6.7%	Increase due to large non-routine maintenance projects including cathodic protection and tank recoat projects.
Revenue	\$2,201,000	5.3%	Increase in revenue is attributable to the rate increase.
Expenditures	\$1,891,000	3.9%	Increase in maintenance projects including large non-routine maintenance projects (cathodic protection and tank recoats), and work on regional water supply resiliency, water system risk and resiliency assessment, and water quality studies.

Factors affecting the O&M rate:

O&M Fund Expenditures	Increase (Decrease) in Dollars	Percent Change	Description
Labor	\$840,000	5.6%	Increase attributable to inflation and an increase in labor for maintenance projects and regional water supply resiliency, water system risk and resiliency assessment, and water quality studies.
Power	\$100,000	2.9%	Increase attributable to inflation.
Chemicals	\$200,000	28.6%	Increase in chemical costs to maintain chlorine residual and contact time.
Testing/Analysis	(\$10,000)	-7.4%	Expected to align with five year average.
Contract Services	\$1,092,000	21.0%	Increase due to tank maintenance contract and work on regional water supply resiliency, water system risk and resiliency assessment, and water quality studies.
Maintenance - Equipment	(\$94,000)	-8.1%	Equipment pre-purchased in FY19-20 to be installed in FY20-21. Funds directed to tank maintenance program.
Small Tools - Instruments	(\$21,000)	-11.9%	Expected to decrease to align more closely with Fiscal Year 2018-2019 actuals.
Operating Transfers	(\$2,000)	0.0%	Operating Transfers (OT's) move revenue generated by rates into respective funds (debt service funds, subfunds, aqueduct capital funds and Common Facilities) and maintain appropriate fund balance.

- **Subfunds: (Budget Packet Pages 21-30):**

- Subfund rates are calculated by dividing subfund expenditures minus grant revenue by budgeted water deliveries.
- Water Management Planning:
  - Expenditures are for Urban Water Management Planning (UWMP) which is required to be updated every five years.

Water Management Planning	Increase (Decrease) in Dollars	Percent Change	Description
Rate per AF	(\$0.22)	-19.7%	Fiscal Year 2019-2020 rate is \$1.14. Fund is for Urban Water Management Plan updates. Past rate increases have accumulated sufficient fund balance for Fiscal Year 2021 Urban Water Management Plan.
Revenue	(\$11,000)	-17.7%	Using \$125,000 in fund balance to decrease rate increase and smooth overall rate increase.
Expenditures	\$125,000	250.0%	Increase is for preparing the Fiscal Year 2021 Urban Water Management Plan.

○ Watershed Planning and Restoration:

- Expenditures are for planning, design, and implementation of watershed restoration projects and projects required under the Biological Opinion.

Watershed Planning and Restoration	Increase (Decrease) in Dollars	Percent Change	Description
Rate per AF	\$14.37	14.0%	Fiscal Year 2019-2020 rate is \$102.96. Rate increase for design and right-of-way expenditures for Dry Creek Habitat Enhancement phases 4, 5, and 6, and construction of phase 4. Approximately \$3.5M in fund balance is being used for design and construction costs to smooth rate impact.
Revenue	\$644,000	13.0%	Increase due to subfund rate increase for Dry Creek Habitat Enhancement phases 4, 5, and 6, offset by use of fund balance.
Expenditures	\$3,827,000	72.7%	Increase is for design and right-of-way expenditures for Dry Creek Habitat Enhancement phases 4, 5, and 6, and construction of phase 4, in addition to ongoing required biological opinion activities.

○ Recycled Water and Local Supply:

- Expenditures are for planning, design, and implementation of recycled water and local supply projects. The fund previously included water contractor projects under the Local Recycled Water Tier 2 (LRT2) Program.

Recycled Water and Local Supply	Increase (Decrease) in Dollars	Percent Change	Description
Rate per AF	(\$2.02)	-68.3%	Fiscal Year 2019-2020 rate is \$2.96. Past rate increases have accumulated sufficient fund balance for this fund.
Revenue	(\$432,000)	-87.8%	Using approximately \$35,000 in fund balance to decrease rate increase and smooth overall rate increase.
Expenditures	(\$367,000)	-78.4%	Decrease is due to completion of MMWD LRT2 Project. Expenditures are for Sonoma Water's share of Groundwater Sustainability Agencies' budgets.



- Water Conservation:

- Expenditures are for water use efficiency projects, outreach, and education.

Water Conservation	Increase (Decrease) in Dollars	Percent Change	Description
Rate per AF	(\$4.13)	-8.8%	Fiscal Year 2019-2020 rate is \$46.94. Past rate increases have accumulated sufficient fund balance for this fund.
Revenue	(\$113,000)	-4.5%	Fiscal Year 2020-2021 use of \$144,000 in fund balance to reduce conservation fund rate and smooth overall rate increase.
Expenditures	\$162,000	6.9%	Implement water use efficiency, outreach and education projects, address ongoing water conservation needs, and pass through grant funds to water contractors and other partners.

- **Storage, Common, and Sonoma Bond/Loan Charges: (Budget Packet Pages 42-54):**

- The rates are calculated by dividing the annual debt service and reserve requirements (2012A, 2015A, and proposed 2019A Water Revenue Bonds) by water deliveries. The FY19-20 new money financing (Water Revenue Bonds 2019A): Total \$11.01M at 2.44% for 25 years.

Storage and Common Bond/Loan Charges	Increase (Decrease) in Dollars	Percent Change	Description
Storage Bond/Loan Charge	(\$6.94)	-22.2%	Fiscal Year 2019-2020 rate is \$31.22. Rate is based on revenue requirement for debt service divided by water deliveries. Rate decrease is due to 2015 Storage Bond proceeds being reallocated to Common Facilities for capital expenditure needs in Common Facilities.
Common Bond/Loan Charge	\$6.28	6.9%	Fiscal Year 2019-2020 rate is \$90.88. Rate is based on revenue requirement for debt service divided by water deliveries. Rate increase due to 2015 Bonds reallocated from Storage to Common, and issuance of 2019 Bonds for capital expenditure needs in Common Facilities.
Sonoma Aqueduct Bond/Loan Charge	\$5	3.6%	Fiscal Year 2019-2020 rate is \$130.50. Sonoma Aqueduct pays an additional revenue bond charge for the bonds associated with the Eldridge-Madrone Pipeline Project. Rate is based on revenue requirement for debt service divided by water deliveries. Rate increase due to issuance of 2019 Bonds for capital expenditures in Sonoma Aqueduct Fund.

- **Aqueduct Capital Charge: (Budget Packet Page 1):**

- A discretionary charge is added by the water contractors to build fund balance for future aqueduct capital projects and to provide rate stabilization capacity.
  - The FY 2019-2020 budget included a rate per AF of \$27 for all three aqueducts (Santa Rosa, Petaluma, and Sonoma Aqueducts).

- The FY 2020-2021 draft budget includes a \$27 per Acre-Foot charge for the Santa Rosa and Petaluma Aqueduct capital funds.
- Per Valley of the Moon Water District's request (pending discussions with City of Sonoma), Sonoma Water has rolled the overall rate reduction from the previous draft of the budget package (1/17/2020) into the Sonoma Aqueduct Capital Charge as follows:

	Previous Draft (1/17/2020)	Revised Draft Budget (2/19/2020)	Revised Draft Budget (2/19/2020) Per VOMWD Request
Sonoma AQ Capital Charge	\$27.00	\$27.00	\$32.00
Total Sonoma Aqueduct Rate	\$1,107.66	\$1,102.21	\$1,107.21
Total Sonoma Aqueduct Rate Increase	5.61%	5.09%	5.57%

- **Overall Draft Proposed Rate Increases: (Budget Packet Pages 1-7):**
  - 5.3% (Santa Rosa and Petaluma Aqueducts); 5.57% (Sonoma Aqueduct)
  - FY 2020-2021 budgeted deliveries are based on the last 12 months of water deliveries (Calendar Year (CY) 2019: 43,707 AF). FY 2020-2021 budgeted deliveries are 0.37% less than FY 2019-2020 budgeted deliveries.
  - The FY2020-2021 budget accommodates an increase in large non-routine maintenance projects (cathodic protection and tank recoats), the regional water supply resiliency, water system risk and resiliency assessment, and water quality studies, Dry Creek Habitat Enhancement design and right-of-way for phases 4, 5, and 6, and construction for phase 4; and investment in hazard mitigation and other capital infrastructure projects.

#### **FY 2020-2021 Capital Projects**

#### **(Budget Packet Pages 31-41):**

Project	Category	Amount
Santa Rosa Creek Crossing	Santa Rosa AQ	9,544,565
Ely BPS Flood Control & Electrical Upgrade	Petaluma AQ	64,845
LHMP - Program Design	Sonoma AQ	50,000
SBS Electrical Upgrade and Pumping Reliability	Sonoma AQ	577,000
Sonoma AQ Crossing of Spring Creek & Bennett Valley Fault Cross	Sonoma AQ	50,000
LHMP-Bennet Valley Fault Crossing (Oakmont Pipeline)	Storage	50,000
LHMP-Program Design	Storage	50,000
Ralphine Tanks Flow Thru Conversion	Storage	50,000
Collector 1 and 2 Chlorine Line replacement	Common	127,000
LHMP Program Design	Common	125,000
Mirabel Maintenance Building	Common	60,000
MW Creek Crossing	Common	327,000
RDS Pump and Motor Control Center Replacement	Common	121,029
RR Crossing	Common	46,000
Tank Level - Emergency Backup Power	Common	84,372
Warm Springs Dam Hydroturbine Retrofit	Common	700,000
Wohler Bridge Fiber Optic Cable	Common	150,000
Wohler Plant Access Rd. Retaining Wall	Common	221,000
SCADA Upgrade	Common	250,000
	TOTAL	12,647,811
	Santa Rosa AQ	9,544,565
	Petaluma AQ	64,845
	Sonoma AQ	677,000
	Storage	150,000
	Common	2,211,401
		12,647,811



## **Implementation of Sonoma County Civil Grand Jury 2018-2019 Recommendation R1**

In the August 12, 2019 response to the Grand Jury, Sonoma Water described its plan to present funding options to the Water Advisory Committee's Technical Advisory Committee (TAC) during preparation of the Fiscal Year 20-21 budget.

Water rates can be set at a level sufficient to provide supplemental funding designated specifically for the implementation of natural hazard mitigation projects (including seismic hazard mitigation). The proposed designated funding would occur in the form of annual budget appropriations specifically designated for natural hazard mitigation in the Common Facilities Fund and/or increases to the aqueduct capital charge (applicable to aqueduct capital funds). The supplemental funding would increase the amount of available funds to meet the match obligations of grant funding opportunities, promote rate stabilization when certain years have particularly large expenditures, and lessen the likelihood of implementation delays caused by funding limitations.

At the January 6, 2020 meeting with the TAC ad hoc, and the January 17, 2020 with the TAC ad hoc budget subcommittee, Sonoma Water presented the following funding options to accelerate implementation of seismic hazard mitigation projects.

Option 1: Appropriate \$225,000 in the FY2020-2021 budget in the capital funds to supplement the \$605,000 in existing funds that Sonoma Water has proactively set aside in prior years to fund preliminary engineering and conceptual seismic hazard mitigation project development for multiple project sites that will better position Sonoma Water to compete for and secure external funds. The Option 1 budget appropriation increases the rate approximately 0.5%.

Option 2: Appropriate an estimated \$450,000 in labor costs to fund 0.5 FTE Emergency Manager and 0.5 FTE Operations and Maintenance Manager to facilitate accelerating implementation of seismic hazard mitigation projects. The Option 2 budget appropriation increases the rate approximately 1%.

Option 3: Include a rate per Acre-Foot in the aqueduct capital charge for each aqueduct to provide funding for future hazard mitigation projects. Each \$9 of aqueduct capital charge would result in an estimated 1% increase in the rate. A capital charge of \$9 per Acre-Foot would generate approximately \$240,000, \$128,000, and \$40,000 of funding for the Santa Rosa, Petaluma, and Sonoma Aqueducts, respectively.

Option 4: Combine Options 1, 2 and 3.

Sonoma Water also presented an option to further increase annual budget appropriations to the Common Facilities Fund to provide funding for future hazard mitigation projects where each 1% increase in the rate would generate about \$400,000 of funding for Common Facilities.

The TAC ad hoc budget subcommittee plans to recommend Option 4 and will further consider other funding options to accelerate implementation of seismic hazard mitigation projects during the next budget cycle.

**Sonoma County Water Agency**  
**FY2020-2021 Draft Water Transmission Budget and Rates**

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FY2020-2021

## Prime Contractor Rates Summary

	CHARGE PER ACRE FOOT:						Percent Change
	Santa Rosa	Petaluma	Sonoma				
	Aqueduct	Aqueduct	Aqueduct				
				FY19-20 SR	Pet	Son	
O&M Charge [4.2]	656.51	656.51	656.51	\$615.20	\$615.20	\$615.20	6.71%
Water Management Planning Sub-charge [4.13]	0.92	0.92	0.92	\$1.14	\$1.14	\$1.14	-19.72%
Watershed Planning/Restoration Sub-charge [4.14]	117.33	117.33	117.33	\$102.96	\$102.96	\$102.96	13.95%
Recycled Water & Local Supply Sub-charge [4.15]	0.94	0.94	0.94	\$2.96	\$2.96	\$2.96	-68.31%
Water Conservation Sub-charge [4.16]	42.81	42.81	42.81	\$46.94	\$46.94	\$46.94	-8.81%
O&M Charge	818.51	818.51	818.51	\$769.20	\$769.20	\$769.20	6.41%
Storage and Common Bond & Loan Charges	121.44	121.44	121.44	\$122.10	\$122.10	\$122.10	-0.54%
Sonoma Aqueduct Bond Charge			135.26			\$130.50	3.6%
PRIME CONTRACTORS	\$939.95	\$939.95	\$1,075.21	\$891.30	\$891.30	\$1,021.80	5.46%
Capital Charges - to build fund balance for future projects	27.00	27.00	32.00	\$27.00	\$27.00	\$27.00	0%
PRIME CONTRACTORS	27.00	27.00	32.00	\$27.00	\$27.00	\$27.00	0%
TOTAL PRIME CONTRACTORS	\$966.95	\$966.95	\$1,107.21	\$918.30	\$918.30	\$1,048.80	5.30%
Increase from FY19-20	5.30%	5.30%	5.57%	4.60%	4.60%	4.77%	

FY2020-2021

Prime Contractor Rates Summary

CHARGE PER ACRE FOOT:

Petaluma AQ

	NMWD	NMWD	Percent Change
	FY20-21	FY19-20	
<u>O&amp;M Charge [4.2]</u>	656.51	\$615.20	6.71%
Water Management Planning Sub-charge [4.13]	0.92	\$1.14	-19.72%
Watershed Planning/Restoration Sub-charge [4.14]	117.33	\$102.96	13.95%
Recycled Water & Local Supply Sub-charge [4.15]	0.94	\$2.96	-68.31%
Water Conservation Sub-charge [4.16]	42.81	\$46.94	-8.81%
O&M Charge	<b>818.51</b>	\$769.20	-76.17%
North Marin Bond & Loan Charge [4.9]	67.69	\$57.71	17.30%
Russian River Conservation Charge [4.18 (a)]	106.12	\$102.09	3.95%
Russian River Projects Charge [4.18 (b)]	8.68	\$ 8.34	4.08%
<b><u>TOTAL NMWD</u></b>	<b><u>\$1,001.00</u></b>	<b><u>\$937.34</u></b>	<b><u>6.79%</u></b>

WATER TRANSMISSION SYSTEM  
FY20-21 WATER CHARGES PER ACRE-FOOT  
FOR PRIME CONTRACTORS

FISCAL YEAR	SANTA ROSA AQUEDUCT	% INCR. (DECR.)	PETALUMA AQUEDUCT	% INCR. (DECR.)	SONOMA AQUEDUCT	% INCR. (DECR.)
2020 - 2021	966.95	5.30%	966.95	5.30%	1107.21	5.57%
2019 - 2020	918.30	4.60%	918.30	4.60%	1048.80	4.77%
2018 - 2019	877.88	3.67%	877.88	3.67%	1001.06	5.98%
2017 - 2018	846.78	4.98%	846.78	4.98%	944.56	5.58%
2016 - 2017	806.59	5.98%	806.59	5.98%	894.62	6.94%
2015 - 2016	761.05	4.16%	761.05	4.16%	836.55	5.46%
2014 - 2015	730.68	3.60%	730.68	3.60%	793.24	3.19%
2013 - 2014	705.30	4.95%	705.30	4.95%	768.75	3.84%
2012 - 2013	672.03	5.98%	672.03	5.98%	740.34	5.26%
2011 - 2012	634.11	5.00%	634.11	5.00%	703.33	4.28%
2010 - 2011	603.92	6.93%	603.92	6.93%	674.47	8.42%
2009 - 2010	564.78	19.88%	564.78	10.50%	622.11	27.95%
2008 - 2009	471.13	6.66%	511.13	10.71%	486.22	7.22%
2007 - 2008	441.70	2.41%	461.70	2.31%	453.49	2.46%
2006 - 2007	431.29	4.51%	451.29	4.30%	442.60	4.26%
2005 - 2006	412.68	2.53%	432.68	2.41%	424.53	2.44%
2004 - 2005	402.51	2.19%	422.51	2.08%	414.42	1.59%
2003 - 2004	393.89	1.65%	413.89	4.02%	407.95	5.30%
2002 - 2003	387.49	1.10%	397.90	3.61%	387.43	3.76%
2001 - 2002	383.29	15.88%	384.02	15.80%	373.38	16.41%
2000 - 2001	330.76	6.72%	331.61	6.60%	320.74	7.60%

WATER TRANSMISSION SYSTEM  
FY20-21 REVENUE SUMMARY CHART

WATER CUSTOMER	FY20-21 Budgeted Water Use (Acre-Feet)	FY19-20 Rate \$/Acre-Foot	FY20-21 Proposed Rate \$/Acre-Foot	Dollar Change	Percent Change
Santa Rosa Aqueduct	17,389	\$918.30	\$966.95	\$48.65	5.30%
Petaluma Aqueduct	9,625	918.30	966.95	\$48.65	5.30%
Sonoma Aqueduct	3,950	1,048.80	1,107.21	\$58.41	5.57%
North Marin Water District	5,250	937.34	1,001.00	\$63.66	6.79%
Marin Municipal – Fourth Off Peak	4,300	1,129.74	1,188.11	\$58.37	5.17%
Marin Municipal – Supplemental	1,227	1,129.74	1,188.11	\$58.37	5.17%
Forestville Aqueduct	393	918.30	966.95	\$48.65	5.30%
Wholesale/Municipal	1,010	1,258.55	1328.644	\$70.09	5.57%
Surplus	96	923.04	982.21	\$59.17	6.41%
Windsor	468	1,101.96	1,160.34	\$58.38	5.30%
<b>TOTAL</b>	43,707				



**SONOMA COUNTY WATER AGENCY RATES FOR WATER DELIVERIES IN FY20-21**

[X] ESTIMATED [ ] OFFICIAL  
Approved by Board of Directors on April \_\_\_\_\_, 2020

**CHARGE PER ACRE FOOT:**

	Santa Rosa Aqueduct	Petaluma Aqueduct	Sonoma Aqueduct
<b>PRIME CONTRACTORS</b>			
<u>O&amp;M Charge [4.2]</u>	\$656.51	\$656.51	\$656.51
Water Management Planning Sub-charge [4.13]	\$0.92	\$0.92	\$0.92
Watershed Planning/Restoration Sub-charge [4.14]	\$117.33	\$117.33	\$117.33
Recycled Water & Local Supply Sub-charge [4.15]	\$0.94	\$0.94	\$0.94
Water Conservation Sub-charge [4.16]	\$42.81	\$42.81	\$42.81
O&M Charge	\$818.51	\$818.51	\$818.51
 <u>Bond &amp; Loan Charges - to pay for existing debt service</u>			
Storage Facilities Capital Charge [4.7]	24.28	24.28	24.28
Common Facilities Capital Charge [4.8]	97.16	97.16	97.16
Sonoma Aqueduct Facilities Capital Charges [4.6 b]			135.26
<u>Total Bond &amp; Loan Charges</u>	\$121.44	\$121.44	\$256.70
 <u>Discretionary:</u>			
<u>Aqueduct Capital Charges - to build fund balance for future projects</u>			
Aqueduct Facilities Capital Charges [4.6 e]	27.00	27.00	32.00
LRT2 - included in Recycled Water & Local Supply Sub-Charge above.			
<b>TOTAL PRIME CONTRACTORS</b>	<b>\$966.95</b>	<b>\$966.95</b>	<b>\$1,107.21</b>
Charge without LRT2 and voluntary AQ Capital Charge	\$939.95	\$939.95	\$1,075.21
<b>OTHER AGENCY CUSTOMERS/WHOLESALE CHARGES</b>			
<u>(WATER CO'S &amp; PUBLIC AGENCIES)</u>			
O&M Charge	\$818.51	\$818.51	\$818.51
Capital Charges	121.44	121.44	256.70
Aqueduct Facilities Capital Charge [4.12]	\$388.70	\$388.70	\$253.44
<b>TOTAL OTHER AGENCY CUSTOMERS/WHOLESALE CHARGES (4.12)</b>	<b>\$1,328.64</b>	<b>\$1,328.64</b>	<b>\$1,328.64</b>
(120% OF HIGHEST PRIME)			
<b>FORESTVILLE</b>			
O&M Charge [4.2] *	\$656.51		
Water Management Planning Sub-charge [4.13]	0.92		
Watershed Planning/Restoration Sub-charge [4.14]	117.33		
Recycled Water & Local Supply Sub-charge [4.15]	0.94		
Water Conservation Sub-charge [4.16]	42.81		
O&M Charge	\$818.51		
<u>Bond &amp; Loan Charges - to pay for existing debt service</u>			
Aqueduct Facilities Capital Charges [4.6]	27.00		
Storage Facilities Capital Charge [4.7]	24.28		
Common Facilities Capital Charge [4.8]	97.16		
<u>Total Capital Charges</u>	\$148.44		
<b>TOTAL FORESTVILLE</b>	<b>\$966.95</b>		
* Forestville Water District was exempt from Santa Rosa Aqueduct sub-charge from FY 06/07 to FY 16/17 [4.12].			
<b>NORTH MARIN WATER DISTRICT</b>			
O&M Charge		\$818.51	Note: N. Marin pays bond and loan charge 106.12 in lieu of Capital Charge. 8.68
North Marin Bond & Loan Charge [4.9]		67.69	
Russian River Conservation Charge [4.18 (a)]		106.12	
Russian River Projects Charge [4.18 (b)]		8.68	
<b>TOTAL NORTH MARIN WATER DISTRICT</b>		1,001.00	
<b>FOURTH OFF-PEAK (MARIN MUNICIPAL)</b>			
Highest Prime on SR and PET AQ x 1.11		\$1,073.31	
Russian River Conservation Charge		106.12	
Russian River Projects Charge		8.68	
<b>TOTAL FOURTH OFF-PEAK</b>		<b>\$1,188.11</b>	
<b>SUPPLEMENTAL (MARIN MUNICIPAL)</b>			
Highest Prime on SR and PET AQ x 1.11		\$1,073.31	
Russian River Conservation Charge		106.12	
Russian River Projects Charge		8.68	
<b>TOTAL SUPPLEMENTAL</b>		<b>\$1,188.11</b>	
<b>SURPLUS</b>			
Non-Municipal / Municipal [4.11 (a)]	\$982.21	\$982.21	\$982.21
(120% of O&M Charge)			
<b>Town of Windsor</b>		\$1,160.34	
Town of Windsor is charged 120% of the highest charge for any other prime contractor on the Santa Rosa Aqueduct from FY 06/07 to FY 21/22 [4.17 (a)]. Town of Windsor pays all subcharges [4.13, 4.14, 4.15, and 4.16] on all water they divert from the Russian River using their equipment [4.17 (b)].			
	\$1,160.34		

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

**FY 2020-21 BUDGET**  
**SONOMA COUNTY WATER AGENCY**  
*Operations and Maintenance Rate Computation*

**O & M REVENUE REQUIREMENT**

**FY20-21 ESTIMATED FISCAL YEAR EXPENDITURES** \$50,614,959

**LESS:**

Depreciation/Amortization	7,816,000
Investment Income, Interest on Pooled Cash, Charges for Services	165,750
Power Sales	100,000
PWRPA Pre-paid Expense - FY 08/09 Rate Reduction- <i>One time only</i>	
<b>"Mandatory Prudent Reserve" charge</b>	<b>0</b>
Recycled Water funds (Sub-object 7277) taken from special reserve	
Transfers Out	12,958,957

REVENUE REQUIREMENT (Net Expenditures)	\$29,574,252
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**O & M ACRE FOOT BASE**

DELIVERIES:	43,707.2
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**LESS:**

Marin Municipal	5,527.1
Surplus (Irrigation)	95.6

TOTAL BASE DELIVERIES	38,084.5
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**O & M RATE COMPUTATION:**

Rate = Revenue Requirement - (Marin Municipal Deliveries x 1.11 x 0.92568 x Highest Prime Rate  
on Petaluma or Santa Rosa Aqueduct - Subfunds)

Total Deliveries - Surplus Deliveries - Marin Muni Deliveries

$$= \frac{29,574,252 - (4,300.00 \times 827.10) - (1,227.09 \times 827.10)}{43,707.2 - 95.6 - 5,527.1}$$

\* = **656.51**

**FY20-21**  
**Proposed Water Rates**

	<b><u>FY19-20</u></b>	<b><u>FY20-21</u></b>	
	<b>(Actual)</b>	<b>(Proposed)</b>	<b>% Change</b>
O&M Charge	615.20	656.51	6.71%
Water Management Planning Sub-Charge	1.14	0.92	-19.72%
Watershed Planning/Restoration Sub-Charge	102.96	117.33	13.95%
Recycled Water Sub-Charge	2.96	0.94	-68.31%
Water Conservation Sub-Charge	46.94	42.81	-8.81%
<b>Total O&amp;M Charge</b>	<b>769.20</b>	<b>818.50</b>	<b>6.41%</b>

**Santa Rosa Aqueduct Rate**

O&M Charge	769.20	818.51	6.41%
Aqueduct Facilities Capital Charges [4.6 e]	27.00	27.00	0.0%
Storage Facilities Capital Charge [4.7]	31.22	24.28	-22.24%
Common Facilities Capital Charge [4.8]	90.88	97.16	6.91%
<b>TOTAL</b>	<b>918.30</b>	<b>966.95</b>	<b>5.30%</b>

**Petaluma Aqueduct Rate**

O&M Charge	769.20	818.51	6.41%
Aqueduct Facilities Capital Charges [4.6 e]	27.00	27.00	0.0%
Storage Facilities Capital Charge [4.7]	31.22	24.28	-22.24%
Common Facilities Capital Charge [4.8]	90.88	97.16	6.91%
<b>TOTAL</b>	<b>918.30</b>	<b>966.95</b>	<b>5.30%</b>

**Sonoma Aqueduct Rate**

O&M Charge	769.20	818.51	6.41%
Aqueduct Facilities Capital Charges [4.6 e]	27.00	32.00	18.5%
Storage Facilities Capital Charge [4.7]	31.22	24.28	-22.24%
Common Facilities Capital Charge [4.8]	90.88	97.16	6.91%
Sonoma Aqueduct Facilities Capital Charges	130.50	135.26	3.65%
<b>TOTAL</b>	<b>1048.80</b>	<b>1107.21</b>	<b>5.57%</b>

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

FISCAL YEAR 2020-21

**PROPERTY ASSESSMENT VALUES AS OF FY19-20:**

TAX CODE	ENTITY	SECURED	UNSECURED	TOTAL VALUE
14000	Forestville Co Water District	452,933,736	2,181,090	\$455,114,826
42800	City of Cotati	1,171,732,726	26,672,022	1,198,404,748
43500	City of Petaluma	10,377,864,299	430,088,763	10,807,953,062
43800	City of Rohnert Park	5,722,020,923	143,889,136	5,865,910,059
44500	City of Santa Rosa	24,674,068,829	746,895,959	25,420,964,788
45000	City of Sonoma	2,938,816,046	77,673,856	3,016,489,902
N/A	Valley of the Moon Water District	3,624,923,869	27,276,527	3,652,200,396
TOTAL		\$48,962,360,428	\$1,454,677,353	\$50,417,037,781

**Notes:**

- Total value of secured and unsecured property in service areas of Prime Water Contractors of Sonoma County (see above) \$50,417,037,781
- 2016-17 Sonoma County tax rate per \$100 of full cash value assessed for payment of Warm Springs Dam Project Obligations 0.007
- Total tax levied on citizens residing in service areas of Prime Water Contractors of Sonoma County, i.e., (Line 1/100) x Line 2 \$3,529,193
- Total acre feet of water delivered to Prime Water Contractors of Sonoma County (excluding North Marin and Town of Windsor) plus deliveries to Forestville during the prior 12 month period ending March 31. 33,256.56
- Total Russian River Conservation Charge per Acre Foot (Line 3 / Line 4) \$106.12

**Russian River Projects Charge**  
Historical calculations

**RR Conservation Charge**  
Historical calculations

**Reset print area ea**

For FY	Calculated	Actual Charge	
06-07	17.02	\$17.02	\$48.33
07-08	21.4	\$20.00	\$52.70
08-09	25.08	\$20.00	\$58.44
09-10	24.68	\$20.00	\$57.70
10-11	24.4	\$20.00	\$74.62
11-12	23.44	\$20.00	\$72.27
12-13	20.38	\$20.00	\$72.08
13-14	14.72	\$14.72	\$63.30
14-15	8.72	\$8.72	\$63.90
15-16	12.39	\$12.39	\$69.38
16-17	12.96	\$12.96	\$78.73
17-18	13.08	\$13.08	\$105.78
18-19	9.13	\$9.13	\$109.75
19-20	8.34	\$8.34	\$102.09
20-21	8.68	\$8.68	\$106.12



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

		DELIVERING AQUEDUCT				Monthly
		Santa Rosa	Petaluma	Forestville	Sonoma	Total
36	Jan-17	1,099.2	1,219.7	26.9	220.0	2,565.8
35	Feb-17	1,023.6	1,130.4	22.6	186.5	2,363.1
34	Mar-17	992.1	1,055.3	17.3	184.7	2,249.3
33	Apr-17	1,086.7	1,777.0	22.3	215.7	3,101.7
32	May-17	1,416.0	2,095.9	30.7	348.9	3,891.5
31	Jun-17	1,627.3	2,280.7	34.6	391.6	4,334.2
30	Jul-17	2,295.9	2,711.9	52.3	584.6	5,644.7
29	Aug-17	1,678.8	2,246.2	43.3	450.1	4,418.4
28	Sep-17	2,250.3	2,634.2	51.6	546.3	5,482.4
27	Oct-17	1,788.9	2,170.0	42.7	445.3	4,446.9
26	Nov-17	1,123.1	1,350.7	25.4	257.4	2,756.7
25	Dec-17	1,107.6	1,268.4	20.9	196.0	2,593.0
24	Jan-18	1,307.1	1,496.0	25.4	228.5	3,057.1
23	Feb-18	1,097.9	1,292.8	20.2	210.7	2,621.6
22	Mar-18	1,059.5	1,691.3	19.3	179.0	2,949.0
21	Apr-18	1,361.0	2,012.0	27.2	267.7	3,667.9
20	May-18	1,475.9	2,043.2	29.0	340.3	3,888.4
19	Jun-18	1,825.4	2,338.6	37.5	406.5	4,608.0
18	Jul-18	2,244.4	2,877.4	53.4	577.1	5,752.3
17	Aug-18	1,748.3	2,239.0	47.9	446.1	4,481.3
16	Sep-18	1,681.1	2,073.3	44.8	411.1	4,210.4
15	Oct-18	1,931.3	2,273.1	43.0	449.9	4,697.3
14	Nov-18	1,409.2	1,759.8	28.8	329.2	3,527.0
13	Dec-18	1,326.0	1,720.4	24.2	299.4	3,370.1
12	Jan-19	1,002.3	1,176.4	19.0	198.2	2,396.0
11	Feb-19	1,098.3	1,137.9	18.4	176.0	2,430.7
10	Mar-19	1,165.9	1,028.0	20.8	164.9	2,379.6
9	Apr-19	1,265.0	1,794.2	24.6	177.3	3,261.2
8	May-19	1,117.0	2,055.4	29.2	264.6	3,466.1
7	Jun-19	1,588.5	2,062.7	32.1	315.4	3,998.7
6	Jul-19	2,297.8	2,778.4	51.7	538.0	5,666.1
5	Aug-19	1,872.0	2,185.7	48.2	456.5	4,562.4
4	Sep-19	1,734.9	2,078.1	41.9	457.0	4,311.9
3	Oct-19	2,000.5	2,290.4	48.3	514.5	4,853.8
2	Nov-19	1,502.4	1,484.6	40.2	410.9	3,438.0
1	Dec-19	1,307.8	1,339.8	18.4	276.7	2,942.8
<b>Total Deliveries</b>		53,909.1	67,168.9	1,184.3	12,122.9	134,385.1
<b>3-Year Annual Average</b>		17,969.7	22,389.6	394.8	4,041.0	44,795.0
<b>Past 12 Months</b>		17,952.5	21,411.6	393.0	3,950.2	43,707.2
Total Deliveries		53,909.1	67,168.9	1,184.3	12,122.9	134,385.1
Less: North Marin			17,084.7			17,084.7
Marin Municipal			16,098.7			16,098.7
<b>Sonoma Co. Deliveries</b>		53,909.1	33,985.4	1,184.3	12,122.9	101,201.6
<b>3-Year Annual Average</b>		17,969.7	11,328.5	394.8	4,041.0	33,733.9

SONOMA COUNTY WATER AGENCY  
SCHEDULE OF ACTUAL PRIOR 12 MONTHS WATER DELIVERIES IN ACRE FEET (BY CUSTOMER TYPE)  
JANUARY THROUGH DECEMBER

SONOMA COUNTY WATER AGENCY  
ACTUAL WATER DELIVERY DISTRIBUTION BY AQUEDUCT (ACRE FEET)  
PRIOR 12 MONTHS

Aqueduct No.														**** DELIVERING AQUEDUCT ****																	
														Santa Rosa	Petaluma	Sonoma	TOTAL														
PRIMES														DELIVERED TO:																	
1	City of Santa Rosa	959.3	1,046.8	1,117.1	1,212.8	1,053.7	1,521.6	2,216.5	1,784.9	1,648.3	1,913.3	1,443.1	1,248.7	17,166.2	CITY OF SANTA ROSA (A)																
2	City of Petaluma	426.4	414.8	414.3	518.6	604.8	668.6	952.5	798.0	772.0	891.0	672.8	514.5	7,648.5	Jan 2019																
2	North Marin Water Dist.	351.8	340.2	366.9	256.1	310.3	416.0	765.6	562.5	507.9	560.4	378.9	433.4	5,250.1	Feb 2019																
2	City of Rohnert Park	157.9	149.6	108.4	130.3	212.2	211.6	332.7	243.6	226.9	224.4	145.1	134.6	2,277.2	Mar 2019																
2	City of Cotati	22.1	21.7	24.5	36.0	44.6	52.9	70.7	57.7	54.0	60.1	49.6	24.4	518.3	Apr 2019																
1	Town of Windsor	32.1	38.9	37.2	37.0	36.5	39.9	41.6	46.6	47.0	42.8	34.6	34.0	468.1	May 2019																
4	City of Sonoma	81.8	83.2	81.8	85.4	130.9	162.5	254.8	212.5	207.9	216.3	178.2	94.9	1,790.2	Jun 2019																
4	Valley of the Moon Dist.	112.9	89.4	79.3	85.8	115.0	142.2	263.4	223.6	217.9	261.3	203.2	162.2	1,956.2	Jul 2019																
TOTAL PRIMES														2,144.4	2,184.7	2,229.4	2,362.0	2,508.0	3,215.3	4,897.8	3,929.4	3,681.9	4,169.4	3,105.6	2,646.8	37,074.7					
OTHER AGENCY CUSTOMERS																															
1	Cal-American Water	10.6	12.1	11.3	14.1	24.2	22.7	31.3	33.6	32.7	40.1	23.2	24.2	280.1	Aug 2019																
2	Penngrove Water Co	9.1	8.9	9.1	12.7	14.2	17.7	25.6	20.6	20.4	22.8	19.4	10.0	190.4	Sep 2019																
4	Lawndale Mutual	1.3	1.2	1.3	2.3	4.0	5.0	8.2	7.6	6.6	7.3	4.5	2.9	52.1	Oct 2019																
4	Kenwood Village Water Co	0.3	0.3	0.3	0.4	0.4	0.4	0.6	0.5	0.6	0.6	2.4	0.5	7.3	Nov 2019																
3	Forestville Co Water Dist.	19.0	18.4	20.8	24.6	29.2	32.1	51.7	48.2	41.9	48.3	40.2	18.4	393.0	Dec 2019																
1	Other Gov-Santa Rosa Aq	0.2	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.7	0.9	0.7	0.6	5.7	TOTAL SANTA ROSA																
2	Other Gov-Petaluma Aq	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13,440.6	0.0	3,725.5	17,166.2													
4	Other Gov-Sonoma Aq	0.1	1.0	0.6	0.6	0.9	1.1	4.9	3.4	14.7	22.5	17.9	13.5	81.3	OTHER PRIME CONTRACTORS (B)																
TOTAL OTHER AGY. CUST														40.7	42.2	43.5	54.9	73.2	79.4	122.9	114.5	117.6	142.5	108.2	70.3	1,009.8	CITY OF PETALUMA				
OFF-PEAK CUSTOMERS																		0.0				7,648.5	7,648.5								
2	Marin Municipal	209.1	202.7	105.0	840.4	869.3	695.8	631.3	503.3	496.9	531.0	218.8	222.8	5,527.1	NORTH MARIN WATER DISTRICT																
SURPLUS CUSTOMERS																		25.7				2,251.5	2,277.2								
1	Irrigation-Santa Rosa Aq	0.1	0.3	0.1	1.0	2.2	4.0	7.8	6.2	6.2	3.5	0.8	0.3	32.4	CITY OF COTATI																
2	Irrigation-Petaluma Aq	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TOWN OF WINDSOR																
4	Irrigation-Sonoma Aq	1.8	0.8	1.7	2.8	13.4	4.2	6.3	9.0	9.4	6.5	4.6	2.7	63.1	CITY OF SONOMA																
TOTAL SURPLUS CUST.														1.9	1.1	1.8	3.8	15.6	8.2	14.1	15.2	15.5	10.0	5.4	2.9	95.6	VALLEY OF THE MOON DISTRICT				
TOTAL DELIVERIES														2,396.0	2,430.7	2,379.6	3,261.2	3,466.1	3,998.7	5,666.1	4,562.4	4,311.9	4,853.7	3,438.0	2,942.8	43,707.2	TOTAL OTHER PRIME CONTRACTORS				
																		500.0	15,662.1	3,746.4	19,908.5										
																						13,940.7	15,662.1	7,471.9	37,074.7						
																										(5,250.1)	(5,250.1)				
																										13,940.7	10,412.1	7,471.9	31,824.6		

**FY 2020-21 BUDGET**  
**Water Transmission System Agency Fund**  
**ESTIMATED WATER DELIVERIES AND WATER SALES - O&M plus Surcharges**

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>WATER SALES - O&amp;M</u></b>			
1 PRIMES without Subcharges	37,074.7	656.51	24,339,897
2 OTHER AGENCY CUSTOMERS	1,009.8	1,166.66	1,178,114
3 MARIN MUNICIPAL (OFF-PEAK)	<b>4,300.0</b>	827.10	3,556,528
4 MARIN MUNICIPAL (SUPPLEMENTAL)	1,227.1	827.10	1,014,925
5 SURPLUS CUSTOMERS	95.6	820.22	78,410
<b>TOTAL WATER SALES - O&amp;M</b>	<b>43,707.2</b>	<b>N/A</b>	<b>\$30,167,874</b>

Note: MMWD rate adjusted per Amended MMWD Water Supply Agreements Effective 7/1/15.

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

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>WATER SALES - Sub-charges</u></b>			
1a Water Management Planning Sub-charge [4.13]	43,707.2	0.92	40,000
1b Watershed Planning/Restoration Sub-charge [4.14]	43,707.2	117.33	5,128,067
1c Recycled Water & Local Supply Sub-charge [4.15]	43,707.2	0.94	41,000
1d Water Conservation Sub-charge [4.16]	43,707.2	42.81	1,870,952
<b>TOTAL WATER SALES - Subcharges</b>	<b>43,707.2</b>	<b>N/A</b>	<b>\$7,080,019</b>

# FY 2020-21 BUDGET

## Water Transmission System Agency Fund

### SANTA ROSA AQUEDUCT ESTIMATED WATER DELIVERIES AND WATER SALES - O&M plus Surcharges

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>WATER SALES - O&amp;M</u></b>			
1 SANTA ROSA AQUEDUCT	17,952.5	656.51	11,785,973

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

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>WATER SALES - Sub-charges</u></b>			
1a Water Management Planning Sub-charge [4.13]	17,952.5	0.92	16,430
1b Watershed Planning/Restoration Sub-charge [4.14]	17,952.5	117.33	2,106,323
1c Recycled Water & Local Supply Sub-charge [4.15]	17,952.5	0.94	16,841
1d Water Conservation Sub-charge [4.16]	17,952.5	42.81	768,483
<b>TOTAL WATER SALES - Subcharges</b>	17,952.5	N/A	\$2,908,077

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>CAPITAL CHARGES</u></b>			
Aqueduct Facilities Capital Charges [4.6 e]	17,952.5	27.00	484,717
<b><u>BOND AND LOAN CAPITAL CHARGES</u></b>			
Storage Facilities Capital Charge [4.7]	17,952.5	24.28	435,840
Common Facilities Capital Charge [4.8]	17,952.5	97.16	1,744,316
Sonoma Aqueduct Facilities Capital Charges [4.6 b]	17,952.5	0.00	0
<b>TOTAL WATER SALES - Capital &amp; Bond and Loan Charges</b>	17,952.5	N/A	\$2,664,873

**TOTAL ESTIMATED REVENUE**

**\$17,358,923**



# FY 2020-21 BUDGET

## Water Transmission System Agency Fund

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

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>WATER SALES - O&amp;M</u></b>			
1 PETALUMA AQUEDUCT	21,411.6	656.51	14,056,886

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

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>WATER SALES - Sub-charges</u></b>			
1a Water Management Planning Sub-charge [4.13]	21,411.6	0.92	19,595
1b Watershed Planning/Restoration Sub-charge [4.14]	21,411.6	117.33	2,512,168
1c Recycled Water & Local Supply Sub-charge [4.15]	21,411.6	0.94	20,085
1d Water Conservation Sub-charge [4.16]	21,411.6	42.81	916,553
<b>TOTAL WATER SALES - Subcharges</b>	21,411.6	N/A	\$3,468,401

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>CAPITAL CHARGES</u></b>			
Aqueduct Facilities Capital Charges [4.6 e]	21,411.6	27.00	578,112
<b><u>BOND AND LOAN CAPITAL CHARGES</u></b>			
Storage Facilities Capital Charge [4.7]	21,411.6	24.28	519,818
Common Facilities Capital Charge [4.8]	21,411.6	97.16	2,080,410
Sonoma Aqueduct Facilities Capital Charges [4.6 b]	21,411.6	0.00	0
<b>TOTAL WATER SALES - Capital &amp; Bond and Loan Charges</b>	21,411.6	N/A	\$3,178,340

**TOTAL ESTIMATED REVENUE**

**\$20,703,627**

**FY 2020-21 BUDGET**  
**Water Transmission System Agency Fund**  
**SONOMA AQUEDUCT ESTIMATED WATER DELIVERIES AND WATER SALES - O&M plus Surcharges**

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b>WATER SALES - O&amp;M</b>			
1 SONOMA AQUEDUCT	3,950.2	656.51	2,593,335

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

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b>WATER SALES - Sub-charges</b>			
1a Water Management Planning Sub-charge [4.13]	3,950.2	0.92	3,615
1b Watershed Planning/Restoration Sub-charge [4.14]	3,950.2	117.33	463,466
1c Recycled Water & Local Supply Sub-charge [4.15]	3,950.2	0.94	3,706
1d Water Conservation Sub-charge [4.16]	3,950.2	42.81	169,094
<b>TOTAL WATER SALES - Subcharges</b>	3,950.2	N/A	\$639,881

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b>CAPITAL CHARGES</b>			
Aqueduct Facilities Capital Charges [4.6 e]	3,950.2	32.00	126,406
<b>BOND AND LOAN CAPITAL CHARGES</b>			
Storage Facilities Capital Charge [4.7]	3,950.2	24.28	95,900
Common Facilities Capital Charge [4.8]	3,950.2	97.16	383,812
Sonoma Aqueduct Facilities Capital Charges [4.6 b]	3,950.2	135.26	534,306
<b>TOTAL WATER SALES - Capital &amp; Bond and Loan Charges</b>	3,950.2	N/A	\$1,140,424

**TOTAL ESTIMATED REVENUE                      \$4,373,640**

**FY 2020-21 BUDGET**  
**BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Water Transmission System Agency Fund

Fund/Department No:

44205

33040100

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>7,779,311</b>	<b>10,923,302</b>		<b>7,480,284</b>		

**REVENUES**

**USE OF MONEY / PROPERTY**

44002 Interest on Pooled Cash	387,673	170,250	170,250	165,750	(4,500)	(2.64%)
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains & Losses	225,024	(160,000)	0	0	0	N/A
44109 Concessions	0	0	0	0	0	N/A
44101 Rent - Real Estate	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>612,697</b>	<b>10,250</b>	<b>170,250</b>	<b>165,750</b>	<b>(4,500)</b>	<b>(2.64%)</b>

**INTERGOVERNMENTAL REVENUES**

42282 State CalOES Disaster Funding	19,700	0	0	0	0	N/A
42284 State Cal OES Admin Allowance	0	0	0	0	0	N/A
42358 State Other Funding	0	0	0	0	0	N/A
42441 Federal FEMA Disaster Funding	78,799	990,000	0	0	0	N/A
42461 Federal Other Funding	0	0	0	0	0	N/A
42610 Other Governmental Agencies	0	0	0	0	0	N/A
42621 North Marin Water District	0	0	0	0	0	N/A
42701 Revenue Appl - PY Intergovmtl	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>98,499</b>	<b>990,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

**CHARGES FOR SERVICES**

45062 Construct/Bldg Permit Rvw Svcs	8	0	0	0	0	N/A
45065 Inspection Fees	0	0	0	0	0	N/A
45223 Sewer/Water Hook up Fees	23,820	16,000	0	0	0	N/A
45301 Charges for Services	6,000	0	0	0	0	N/A
45314 Sale - Power	36,156	100,000	100,000	100,000	0	0.00%
45315 Sale - Water, Wholesale	26,250,627	28,357,469	28,357,469	30,167,874	1,810,405	6.38%
45316 Water Conservation	2,048,011	2,059,207	2,059,207	1,870,952	(188,255)	(9.14%)
45323 Common Fac Rev Bond Chg	3,232,244	3,310,088	3,310,088	3,545,690	235,603	7.12%
45324 Storage Fac Rev Bond Chg	1,348,905	1,023,809	1,023,809	797,136	(226,673)	(22.14%)
45325 Sonoma Aqueduct Rev Bond Chg	536,136	510,089	510,089	534,306	24,217	4.75%
45327 Santa Rosa Aqueduct Cap Chg	516,915	561,741	561,741	546,474	(15,266)	(2.72%)
45328 Petaluma Aqueduct Cap Chg	276,405	328,090	328,090	332,486	4,396	1.34%
45329 Sonoma Aqueduct Cap Chg	12,849	100,262	100,262	122,845	22,583	22.52%
45330 North Marin Rev Bond Chg	294,698	329,604	329,604	355,399	25,794	7.83%
45331 Water Mgmt Plan/Restore Chg	45,378	50,000	50,000	40,000	(10,000)	(20.00%)
45332 Watershed Plan/Restore Chg	4,129,977	4,516,770	4,516,770	5,128,067	611,297	13.53%
45333 Recycled Water & Local Supply	132,403	130,013	130,013	41,000	(89,013)	(68.46%)
45401 Revenue Appl PY Chgs for Svcs	30,490	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>38,921,021</b>	<b>41,393,143</b>	<b>41,377,143</b>	<b>43,582,229</b>	<b>2,205,087</b>	<b>5.33%</b>

**Miscellaneous Revenues**

46027 Insurance Claims Reimbursement	0	0	0	0	0	N/A
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## Section Title:

## Water Transmission System Agency Fund

Fund/Department No:

44205

33040100

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
46029 Donations/Contributions	0	0	0	0	0	N/A
46040 Miscellaneous Revenue	6,287	2,700	0	0	0	N/A
46041 Discounts Earned	1,508	6	0	0	0	N/A
46050 Cancelled/Stale Dated Warrants	(865)	3,600	0	0	0	N/A
46200 Revenue Appl PY Misc Revenue	36	3,000	0	0	0	N/A
46205 PY Revenue – Charges for Servi	0	0	0	0	0	N/A
46215 Other Grants	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>6,966</b>	<b>9,306</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>OTHER FINANCING SOURCES</b>						
47002 Sale of Capital Assets	0	0	0	0	0	N/A
47101 Transfers In - within a Fund	0	0	0	0	0	N/A
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL REVENUES</b>	<b>39,639,183</b>	<b>42,402,699</b>	<b>41,547,393</b>	<b>43,747,979</b>	<b>2,200,587</b>	<b>5.30%</b>

## EXPENDITURES

## SERVICES AND SUPPLIES

51021 Communications Expense	103	0	0	0	0	N/A
51031 Waste Disposal Services	0	3,000	3,000	0	(3,000)	(100.00%)
51032 Janitorial Services	6,240	6,000	6,000	6,600	600	10.00%
51041 Insurance - Liability	10,946	0	0	11,000	11,000	N/A
51061 Maintenance - Equipment	2,006,930	1,159,000	1,159,000	1,065,000	(94,000)	(8.11%)
51071 Maintenance - Bldg & Improve	45	0	0	0	0	N/A
51072 Landscaping Services	0	0	0	0	0	N/A
51077 Maint-Infrastructure	0	0	0	0	0	N/A
51083 VSP Premiums	210	0	0	220	220	N/A
51205 Advertising/Marketing Svc	81	500	500	100	(400)	(80.00%)
51209 Information Tech Svc (non ISD)	83	1,500	1,500	1,500	0	0.00%
51211 Legal Services	14,112	12,000	12,000	11,500	(500)	(4.17%)
51212 Outside Counsel - Legal Advice	478	4,500	4,500	1,200	(3,300)	(73.33%)
51214 Agency Extra/Temp Help	0	1,000	1,000	0	(1,000)	(100.00%)
51226 Consulting Services	0	0	0	0	0	N/A
51230 Security Services	2,736	4,320	4,320	2,600	(1,720)	(39.81%)
51231 Testing/Analysis	103,744	135,000	135,000	125,000	(10,000)	(7.41%)
51241 Outside Printing and Binding	3,949	2,000	2,000	2,500	500	25.00%
51242 Bank Charges	50	50	50	50	0	0.00%
51244 Permits/License/Fees	62,769	60,000	60,000	65,000	5,000	8.33%
51249 Other Professional Services	0	0	0	0	0	N/A
51301 Publications and Legal Notices	0	0	0	0	0	N/A
51401 Rents and Leases - Equipment	659,065	400,000	400,000	425,000	25,000	6.25%
51421 Rents and Leases - Bldg/Land	1,549	1,500	1,500	1,600	100	6.67%
51601 Training Services	23,958	20,000	20,000	18,000	(2,000)	(10.00%)
51602 Business Travel/Mileage	16,115	10,000	10,000	10,000	0	0.00%
51605 Private Car Expense	944	1,500	1,500	1,100	(400)	(26.67%)
51801 Other Services	17,416	18,000	18,000	10,000	(8,000)	(44.44%)
51803 Other Contract Services	2,801,699	7,214,378	5,211,500	6,303,910	1,092,410	20.96%

## Section Title:

## Water Transmission System Agency Fund

## Fund/Department No:

44205

33040100

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
51902 Telecommunication Usage	65,477	90,000	90,000	85,000	(5,000)	(5.56%)
51911 Mail Services	11	300	300	150	(150)	(50.00%)
51917 District Operations Chgs	14,668,507	15,601,400	14,935,000	15,774,671	839,671	5.62%
51921 Equipment Usage Charges	956,356	950,000	950,000	950,000	0	0.00%
52021 Clothing, Uniforms, Personal	13,557	13,000	13,000	13,500	500	3.85%
52031 Food	669	700	700	700	0	0.00%
52041 Household Supplies Expense	295	0	0	300	300	N/A
52042 Janitorial Supplies	401	2,000	2,000	1,000	(1,000)	(50.00%)
52061 Fuel/Gas/Oil	5,639	60,000	9,000	7,100	(1,900)	(21.11%)
52071 Materials and Supplies Expense	17,540	3,000	3,000	6,000	3,000	100.00%
52072 Chemicals	860,878	700,000	700,000	900,000	200,000	28.57%
52081 Medical/Laboratory Supplies	13,607	25,000	25,000	20,000	(5,000)	(20.00%)
52091 Memberships/Certifications	34,394	42,000	42,000	40,000	(2,000)	(4.76%)
52101 Other Supplies	0	5,000	5,000	30,000	25,000	500.00%
52111 Office Supplies	20,630	12,000	12,000	12,500	500	4.17%
52114 Freight/Postage	1,038	0	0	1,000	1,000	N/A
52115 Books/Media/Subscriptions	491	1,500	1,500	500	(1,000)	(66.67%)
52117 Mail and Postage Supplies	1,449	3,000	3,000	1,500	(1,500)	(50.00%)
52141 Minor Equipment/Small Tools	150,723	176,000	176,000	155,000	(21,000)	(11.93%)
52142 Computer Equipment/Accessories	1,049	6,000	6,000	7,000	1,000	16.67%
52143 Computer Software/Licensing Fees	35,817	40,000	40,000	40,000	0	0.00%
52162 Special Department Expense	0	0	0	0	0	N/A
52171 Water Conservation Program	0	0	0	0	0	N/A
52191 Utilities	474	500	500	500	0	0.00%
52193 Utilities - Electric	2,136,365	3,400,000	3,400,000	3,500,000	100,000	2.94%
<b>SUBTOTAL</b>	<b>24,718,586</b>	<b>30,185,648</b>	<b>27,465,370</b>	<b>29,608,301</b>	<b>2,142,931</b>	<b>7.80%</b>
<b>OTHER CHARGES</b>						
53103 Interest on LT Debt	0	0	0	0	0	N/A
53104 Other interest Expense	0	0	0	0	0	N/A
53401 Amortization Expense	3,433	54,000	54,000	54,000	0	0.00%
53402 Depreciation Expense	6,513,525	7,982,000	7,982,000	7,762,000	(220,000)	(2.76%)
53403 Loss - Disposed Capital Asset	20,105	0	0	0	0	N/A
53500 Contributions Non-County Agy	0	0	0	0	0	N/A
53501 Contributions	2,495	0	0	0	0	N/A
53610 Other Charges	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>6,539,557</b>	<b>8,036,000</b>	<b>8,036,000</b>	<b>7,816,000</b>	<b>(220,000)</b>	<b>(2.74%)</b>
<b>FIXED ASSETS</b>						
19820 Machinery and Equipment	0	0	0	0	0	N/A
19822 Mobile Equipment	0	0	0	0	0	N/A
19824 Computer Equipment	0	0	0	0	0	N/A
19831 CIP - Bldg & Impr	0	0	0	0	0	N/A
19832 CIP - Infrastructure	0	1,000,000	0	0	0	N/A
19840 Work in Progress - Eqt	22,327	40,000	0	0	0	N/A
19841 Work in Progress - Intang	7,655	30,000	30,000	0	(30,000)	(100.00%)
19851 Intangible Assets - Non-amort	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>29,982</b>	<b>1,070,000</b>	<b>30,000</b>	<b>0</b>	<b>(30,000)</b>	<b>(100.00%)</b>
<b>OTHER FINANCING USES</b>						
57011 Transfers Out - within a Fund	12,839,066	14,590,069	13,192,899	13,190,658	(2,241)	(0.02%)

## Section Title:

Water Transmission System Agency Fund

Fund/Department No:

44205

33040100

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
57012 Transfers Out - btw Govtl Fund	0	0	0	0	0	N/A
SUBTOTAL	12,839,066	14,590,069	13,192,899	13,190,658	(2,241)	(0.02%)
<b>APPROP. FOR CONTINGENCIES</b>						
55011 Appropriation for Contingency	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>REMIBURSEMENTS</b>						
58010 Reimb. - General	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>ADMIN. CONTROL ACCOUNT</b>						
59004 Administrative Control Account	0	0	0	0	0	N/A
59005 Admin Control Acct Clearing	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>44,127,191</b>	<b>53,881,717</b>	<b>48,724,269</b>	<b>50,614,959</b>	<b>1,890,690</b>	<b>3.88%</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Depreciation	6,516,958	8,036,000		7,816,000		
Donated Asset (Caltrans)	0					
Outstanding Encumbrances - Net Change	1,296,579	0				
Capitalized Interest	0					
Gain/Loss on disposal of fixed assets	20,105					
Unrealized Gain/ Loss (GASB 31)	(225,024)					
Change in Prepaid Expense	(30,387)					
Change in Prudent Reserve						
Post audit adjustments - Payables	53,769					
Rounding						
<b>ENDING FUND BALANCE</b>	<b>10,923,302</b>	<b>7,480,284</b>		<b>8,429,304</b>		

Operations and Maintenance 44205 Fund Balance Reserve Goal

7,402,075

Over/(Under) Goal

1,027,229

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

Fund/Department No:

44205

33040100

	Actual FY18-19	Adopted FY19-20	Requested FY20-21	Difference	Percent Change
<u>51061 Maintenance - Equipment</u>	2,006,930	1,159,000	1,065,000	(94,000)	-8.1%
Equipment pre-purchased in FY19-20 to be installed in FY20-21. Funds directed to tank maintenance program.					
<u>51211 Legal Services</u>	14,112	12,000	11,500	(500)	-4.2%
Reflects level of expected expenditures.					
<u>51231 Testing/Analysis</u>	103,744	135,000	125,000	(10,000)	-7.4%
Expected to align with five year average.					
<u>51803 Other Contract Services</u>	2,801,699	5,211,500	6,303,910	1,092,410	21.0%
Increase due to tank maintenance contract and work on regional water supply resiliency, water system risk and resiliency assessment, and water quality studies.					
<u>51917 District Operations Chgs</u>	14,668,507	14,935,000	15,774,671	839,671	5.6%
Increase attributable to inflation and an increase in labor for maintenance projects and regional water supply resiliency, water system risk and resiliency assessment, and water quality studies.					
<u>51921 Equipment Usage Charges</u>	956,356	950,000	950,000	0	0.0%
Reflects level of expected expenditures.					
<u>52072 Chemicals</u>	860,878	700,000	900,000	200,000	28.6%
Increase in chemical costs to maintain chlorine residual and contact time.					
<u>52141 Minor Equipment/Small Tools</u>	150,723	176,000	155,000	(21,000)	-11.9%
Expected to decrease to align more closely with Fiscal Year 2018-2019 actuals.					
<u>52193 Utilities - Electric</u>	2,136,365	3,400,000	3,500,000	100,000	2.9%
Increase attributable to inflation.					



**2020-21**

**Water Transmission System Agency Fund**

<b>51061</b>	<b>Maintenance - Equipment</b>	<b>AMOUNT</b>
1	Cathodic Protection Maintenance	100,000
2	Electrical Supplies and Maintenance Services	355,000
3	Foot bridge retaining wall at Indian Springs Rd.	30,000
4	Groundwater Monitoring Instruments	-
5	Hardware and Miscellaneous Supplies	60,000
6	Main line valve replacements (3)	150,000
7	Mirabel Fish Screens Maintenance	5,000
8	Occidental Well Rehab	-
9	Prop meter test station	60,000
10	Pump and Pipeline Supplies and Maintenance Services	60,000
11	Replace ATI analysers with Deploc at all collectors	50,000
12	Riverfront Park Maintenance - Regional Parks	140,000
13	Santa Rosa Plain Well Monitoring Program (SW Wells)	25,000
14	Sonoma AQ coupler at Madrone Rd	10,000
15	WT Monitoring Well Pressure Transducers	20,000
		<b>\$ 1,065,000</b>

<b>51803</b>	<b>Other Contract Services</b>	<b>AMOUNT</b>
1	Chlorine Systems Assessment for Mirabel and Wohler	100,000
2	Joint Emergency Training	225,000
3	LHMP Program Planning	10,000
4	Maximo Hosting	319,410
5	pH System Assessment and Update	167,000
6	SCADA Improvements	250,000
7	Sonoma Youth Ecology Corps	32,000
8	Tank Recoat - Forestville	50,000
9	Tank Maintenance	3,800,000
10	Water Transmission System Transient Analysis	180,000
11	Community Outreach Program	10,000
12	Integrated Water Management Plan	
13	Bay Area	5,500
14	North Coast	35,000
15	Legislative Advocacy - Federal	95,000
16	Legislative Advocacy - State	50,000
17	North Bay Water Regional Outreach Coordination	25,000
18	Goat Grazing Agreement	25,000
19	Groundwater Banking Feasibility - Pilot Studies	-
20	Regional Water Supply Resiliency Study	150,000
21	Water System Risk and Resiliency Assessment	250,000
22	Watershed and Riverbank Filtration Water Quality Studies	50,000
23	Watershed Water Quality Monitoring - USGS	175,000
24	Watershed Water Quality Study - LBNL	200,000
		<b>\$ 6,203,910</b>

**Regional Water Supply Resiliency Study**

Retail water providers to over 600,000 people in Sonoma and Marin Counties are regionally connected through existing water supply infrastructure. Along with purchasing wholesale water from the Sonoma County Water Agency, each retail provider also has local supplies which are used to meet the demands of their customers. Although these systems are connected, they are not operated or managed in a coordinated manner, especially in times of water shortage. Development of a decision support tool, such as a regional Water Evaluation and Planning System (WEAP) model, could be used to evaluate strategies and water supply projects that would make the region more resilient to future water shortages.

\$150,000

Funds expended in FY 19/20 will be used to develop a work plan in cooperation with the Water Agency's Water Contractors. Funds budgeted for FY 20/21 will be expended on building the model and running scenarios.

**Water System Risk and Resiliency Assessment**

To comply with federal legislation (AWIA of 2018), Sonoma Water must conduct a risk and resilience assessment (RRA) of its potable water system and provide a certification of completion to the U.S. EPA by March 31, 2020. The assessment is required to evaluate the vulnerabilities, threats and consequences from all potential hazards (natural and malevolent) to the water system. A subsequent review and update of the Emergency Response Plans (ERP) that addresses the findings of the RRA is required to be completed and certified with the U.S. EPA within 6 months of the RRA completion. Sonoma Water staff selected Carollo Engineers under an RFQ selection process as the engineering consultant to perform the RRA. Project kick-off meeting is scheduled for Jan 15, 2020. Sonoma Water staff have completed the task of document and data collection and provided to consultant. The two parts of the project--RRA and ERP--will be completed under separate agreements. Initial work has begun on preparing for the second agreement. Project tasks will focus on the components of the RRA over the next three months, which include evaluating critical infrastructure, cybersecurity, and work practices for vulnerability and resiliency. By April, the initial tasks of reviewing and updating the emergency response plans will commence and continue through the rest of the fiscal year. Project efforts will focus on the development of strategies and resources to improve system resilience, plans and procedures to be implemented under threat of hazard or lessen impact of hazard that occurs, and strategies to enhance threat detection. Completion of the ERP update will occur on or before September 30, 2020.

\$250,000

**Watershed Water Quality Monitoring - USGS and LBNL**

In collaboration with the USGS and Lawrence Berkeley National Laboratory (LBNL), Sonoma Water has developed a water quality monitoring program to support assessment of the potential impacts to its production facilities from the recent wildfires in Sonoma and Mendocino Counties. Collected water samples are analyzed for the following constituents: (1) dissolved organic carbon; (2) anions and cations; (3) trace metals (including lead, chromium, copper, arsenic and mercury); (4) nutrients; (5) anhydrous sugars; and (6) DNA. The analytical program is designed to assess the potential impacts related to runoff from areas containing ash, burned soil, burned debris and fire retardant. Sediment samples are also collected at each sampling site for analysis (carbon, nitrogen, mercury and DNA) to support ongoing research specific to the Sonoma Water's riverbank filtration facilities. During the dry season, Sonoma Water completed eight rounds of water quality sampling at 4-7 sites. Protocol that was instituted to monitor impacts from the 2017 and 2018 fires was revised to shift focus on potential impacts from the Kincade Fire (Oct 2019). One additional sampling location was initiated on Macaama Creek. Conducted first post-storm event sampling in Dec 2019 at six sampling locations between Cloverdale and Wohler/Mirabel. Ash samples were collected for analysis and research use in column studies from Foothills Regional Park and the Modini Mayacamas Preserve owned by the Audobon Canyon Ranch. Continue established protocols with current sampling protocol at the six sites through the wet seasons and a dry season sampling protocol at four sites.

\$425,000

**FY 2020-21 BUDGET**  
**BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Water Management Planning

Fund/Department No:

44210

33041000

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>573,620</b>	<b>633,917</b>		<b>218,425</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	13,942	7,945	7,945	7,735	(210)	(2.64%)
44050 Unrealized Gains and Losses	9,315	(6,000)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>23,257</b>	<b>1,945</b>	<b>7,945</b>	<b>7,735</b>	<b>(210)</b>	<b>(2.64%)</b>
<b>INTERGOVERNMENTAL REVENUE</b>						
42619 Town of Windsor	2,955	2,772	2,772	2,226	(546)	(19.70%)
<b>SUBTOTAL</b>	<b>2,955</b>	<b>2,772</b>	<b>2,772</b>	<b>2,226</b>	<b>(546)</b>	<b>(19.70%)</b>
<b>OTHER FINANCING SOURCES</b>						
47101 Transfers In - within a Fund	45,378	50,000	50,000	40,000	(10,000)	(20.00%)
47102 Transfers In - btw Govtl Fund	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>45,378</b>	<b>50,000</b>	<b>50,000</b>	<b>40,000</b>	<b>(10,000)</b>	<b>(20.00%)</b>
<b>TOTAL REVENUES</b>	<b>71,591</b>	<b>54,717</b>	<b>60,717</b>	<b>49,961</b>	<b>(10,756)</b>	<b>(17.72%)</b>
<b>EXPENDITURES</b>						
<b>SERVICES AND SUPPLIES</b>						
51205 Advertising Marketing	0	0	0	0	0	N/A
51211 Legal Services	0	0	0	0	0	N/A
51212 Legal Services - External	0	0	0	0	0	N/A
51241 Outside Printing & Binding	0	0	0	0	0	N/A
51602 Business Travel/Mileage	0	0	0	0	0	N/A
51605 Private Car Expense	0	0	0	0	0	N/A
51803 Other Contract Services	4,927	82,209	0	125,000	125,000	N/A
51917 District Operations Chgs	1,198	50,000	50,000	50,000	0	0.00%
51921 Equipment Usage Charges	0	0	0	0	0	N/A
52171 Water Conservation Program	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>6,125</b>	<b>132,209</b>	<b>50,000</b>	<b>175,000</b>	<b>125,000</b>	<b>250.00%</b>
<b>OTHER CHARGES</b>						
53103 Interest on LT Debt	0	0	0	0	0	N/A
53501 Contributions	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>OTHER FINANCING USES</b>						
57011 Transfers Out - within a Fund	0	338,000	338,000	0	0	0.00%
57012 Transfers Out - btw Govtl Fur	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>338,000</b>	<b>338,000</b>	<b>0</b>	<b>0</b>	<b>0.00%</b>
<b>TOTAL EXPENDITURES</b>	<b>6,125</b>	<b>470,209</b>	<b>388,000</b>	<b>175,000</b>	<b>125,000</b>	<b>32.22%</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Outstanding Encumbrances - Net Change	4,147	0		0		
Audit Adjustment (A/P)	0	0		0		
Unrealized Gain/ Loss (GASB 31)	(9,315)	0		0		
Rounding	(1)	0		0		
<b>ENDING FUND BALANCE</b>	<b>633,917</b>	<b>218,425</b>		<b>93,386</b>		

**FY 2020-21 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Watershed Planning/Restoration

Fund/Department No:

44215

33041100

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>6,531,041</b>	<b>9,055,666</b>		<b>5,734,899</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	221,139	68,100	68,100	66,300	(1,800)	(2.64%)
44050 Unrealized Gains and Losses	144,788	(95,000)	0	0	0	N/A
SUBTOTAL	365,927	(26,900)	68,100	66,300	(1,800)	(2.64%)
<b>INTERGOVERNMENTAL REVENUE</b>						
42461 Federal Other Funding	29,665	75,000	75,000	75,000	0	0.00%
42619 Town of Windsor	269,116	250,395	250,395	285,341	34,946	13.96%
SUBTOTAL	298,781	325,395	325,395	360,341	34,946	10.74%
<b>CHARGES FOR SERVICES</b>						
<b>45301</b> Charges for Services	22,767	0	0	0	0	N/A
45332 Watershed Plan/Restore Chg	42,637	60,000	40,000	40,000	0	0.00%
<b>Subtotal/ Charges for Service</b>	<b>65,404</b>	<b>60,000</b>	<b>40,000</b>	<b>40,000</b>	<b>0</b>	<b>0.00%</b>
<b>MISCELLANEOUS REVENUE</b>						
46021 Capital Grants - Federal	50,000	0	0	0	0	N/A
46029 Donations/Contributions	0	0	0	0	0	N/A
46040 Miscellaneous Revenue	0	0	0	0	0	N/A
46041 Discounts Earned	0	0	0	0	0	N/A
46050 Cancelled/Stale Dated Warrant	0	0	0	0	0	N/A
46200 Revenue Appl PY Misc Revenu	0	0	0	0	0	N/A
SUBTOTAL	50,000	0	0	0	0	N/A
<b>OTHER FINANCING SOURCES</b>						
47101 Transfers In - within a Fund	4,129,977	4,516,770	4,516,770	5,128,067	611,297	13.53%
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	4,129,977	4,516,770	4,516,770	5,128,067	611,297	13.53%
<b>TOTAL REVENUES</b>	<b>4,910,089</b>	<b>4,875,265</b>	<b>4,950,265</b>	<b>5,594,708</b>	<b>644,443</b>	<b>13.02%</b>
<b>EXPENDITURES</b>						
<b>SERVICES AND SUPPLIES</b>						
51021 Communication Expense	0	0	0	0	0	N/A
51061 Maintenance - Equipment	2,311	70,000	0	0	0	N/A
51205 Advertising Marketing	250	10	0	0	0	N/A
51209 Information Tech Svc (non ISD)	147	0	0	0	0	N/A
51211 Legal Services	11,584	2,000	0	0	0	N/A
51212 Legal Services - External	1,906	200	0	0	0	N/A
51221 Medical/Laboratory Services	0	0	0	0	0	N/A
51226 Consulting Services	0	0	0	0	0	N/A
51231 Testing/Analysis	63,849	80,000	80,000	0	(80,000)	(100.00%)
51241 Outside Printing and Binding	1,607	0	0	0	0	N/A
51244 Permits/License/Fees	26,590	0	0	0	0	N/A
51401 Rents and Leases - Equipment	3,300	1,000	0	0	0	N/A
51601 Training/Conference	1,637	0	0	0	0	N/A
51602 Business Travel/Mileage	1,598	1,000	0	0	0	N/A
51605 Private Car Expense	875	1,000	0	0	0	N/A
51801 Other Services	0	0	0	0	0	N/A
51803 Other Contract Services	659,877	2,888,128	742,000	4,436,000	3,694,000	497.84%

## Section Title:

Watershed Planning/Restoration

Fund/Department No:

44215

33041100

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
51902 Telecommunication Usage	616	300	0	0	0	N/A
51917 District Operations Chgs	1,662,555	2,938,451	2,468,000	2,146,067	(321,933)	(13.04%)
51921 Equipment Usage Charges	22,146	26,000	0	0	0	N/A
52021 Clothing, Uniforms, Personal	1,314	2,600	0	0	0	N/A
52031 Food	1,768	200	0	0	0	N/A
52042 Janitorial Supplies	0	0	0	0	0	N/A
52043 Safety Supplies/Equipment	0	0	0	0	0	N/A
52061 Fuel/Gas/Oil	52	0	0	0	0	N/A
52063 Vehicle Parts	0	0	0	0	0	N/A
52071 Materials and Supplies Expens	878	6,600	0	0	0	N/A
52081 Medical/Laboratory Supplies	985	0	0	0	0	N/A
52091 Memberships/Certifications	1,500	0	0	0	0	N/A
52101 Other Supplies	0	0	0	0	0	N/A
52111 Office Supplies	13	200	0	0	0	N/A
52114 Freight/Postage	0	800	0	0	0	N/A
52115 Books/Media	371	200	0	0	0	N/A
52117 Mail and Postage Supplies	558	60	0	0	0	N/A
52141 Minor Equipment/Small Tools	10,811	3,500	0	0	0	N/A
52142 Computer Equipment/Accessor	0	0	0	0	0	N/A
52143 Computer Software	0	0	0	0	0	N/A
52181 Business Meals/Supplies	0	0	0	0	0	N/A
52191 Utilities Expense	0	0	0	0	0	N/A
SUBTOTAL	2,479,097	6,022,249	3,290,000	6,582,067	3,292,067	100.06%
<b>OTHER CHARGES</b>						
53104 Other Interest Expense	0	0	0	0	0	N/A
53402 Depreciation Expense	11,933	8,000	8,000	16,000	8,000	100.00%
53501 Contributions	0	0	0	0	0	N/A
SUBTOTAL	11,933	8,000	8,000	16,000	8,000	1
<b>REIMBURSEMENTS</b>						
58010 Reimb. - General	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>FIXED ASSETS</b>						
19840 Acq-WIP-Equipment	56,154	0	0	0	0	N/A
19841 Acq-WIP-Intangibles	163,221	2,173,783	1,968,000	2,495,000	527,000	N/A
19851 Intangible Assets - Non-amort	0	0	0	0	0	N/A
SUBTOTAL	219,375	2,173,783	1,968,000	2,495,000	527,000	0
<b>OTHER FINANCING USES</b>						
57011 Transfers Out - within a Fund	0	0	0	0	0	N/A
57012 Transfers Out - btw Govtl Fund	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>2,710,405</b>	<b>8,204,032</b>	<b>5,266,000</b>	<b>9,093,067</b>	<b>3,827,067</b>	<b>72.68%</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Outstanding Encumbrances - Net Change	458,128	0				
Capital Interest	0	0				
Depreciation	11,933	8,000		16,000		
Change in prepaid expense	(333)	0				
Unrealized Gain/ Loss (GASB 31)	(144,788)	0				
Rounding	1	0				
<b>ENDING FUND BALANCE</b>	<b>9,055,666</b>	<b>5,734,899</b>		<b>2,252,540</b>		

**FY 2020-21 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Recycled Water and Local Supply

Fund/Department No:

44220

33041200

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>610,386</b>	<b>407,407</b>		<b>342,639</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	23,355	17,025	17,025	16,575	(450)	(2.64%)
44050 Unrealized Gains and Losses	14,328	(7,700)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>37,684</b>	<b>9,325</b>	<b>17,025</b>	<b>16,575</b>	<b>(450)</b>	<b>(2.64%)</b>
<b>INTERGOVERNMENTAL REVENUE</b>						
42358 State Other Funding	0	0	0	0	0	N/A
42619 Town of Windsor	8,629	7,207	7,207	2,281	(4,926)	(68.35%)
<b>SUBTOTAL</b>	<b>8,629</b>	<b>7,207</b>	<b>7,207</b>	<b>2,281</b>	<b>(4,926)</b>	<b>(68.35%)</b>
<b>CHARGES FOR SERVICES</b>						
45301 Charges for Services	0	0	0	0	0	N/A
45333 Recycled Water & Local Supply	925	0	0	0	0	N/A
45401 Revenue Appl PY Chgs for Svcs	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>925</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>MISCELLANEOUS REVENUE</b>						
46022 Capital Grants-State	0	0	0	0	0	N/A
46029 Donations/Contributions	0	0	0	0	0	N/A
46200 Revenue Appl PY Misc Revenue	0	0	0	0	0	N/A
46029 Donations/Contributions	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>OTHER FINANCING SOURCES</b>						
47101 Transfers In - within a Fund	132,403	468,013	468,013	41,000	(427,013)	(91.24%)
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>132,403</b>	<b>468,013</b>	<b>468,013</b>	<b>41,000</b>	<b>(427,013)</b>	<b>(91.24%)</b>
<b>TOTAL REVENUES</b>	<b>179,640</b>	<b>484,545</b>	<b>492,245</b>	<b>59,856</b>	<b>(432,389)</b>	<b>(87.84%)</b>

**EXPENDITURES**

**SERVICES AND SUPPLIES**

51021 Communication Expense	0	0	0	0	0	N/A
51061 Maintenance - Equipment	0	0	0	0	0	N/A
51205 Advertising/Marketing Svc	0	0	0	0	0	N/A
51209 Information Tech Svc (non ISD)	0	0	0	0	0	N/A
51211 Legal Services	128	0	0	0	0	N/A
51212 Legal Services - External	0	0	0	0	0	N/A
51226 Consulting Services	0	0	0	0	0	N/A
51241 Outside Printing and Binding	0	0	0	0	0	N/A
51244 Permits/License/Fees	0	0	0	0	0	N/A
51401 Rents and Leases - Equipment	0	0	0	0	0	N/A
51601 Training Services	75	0	0	0	0	N/A
51602 Business Travel/Mileage	0	0	0	0	0	N/A
51803 Other Contract Services	217,668	60,000	0	0	0	N/A
51902 Telecommunication Usage	23	0	0	0	0	N/A
51915 ISD - Reprographics Services	0	0	0	0	0	N/A
51917 District Operations Chgs	4,324	25,000	0	15,000	15,000	N/A
51921 Equipment Usage Charges	124	0	0	0	0	N/A
52031 Food	0	0	0	0	0	N/A

## Section Title:

## Recycled Water and Local Supply

## Fund/Department No:

44220

33041200

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
52061 Fuel/Gas	0	0	0	0	0	N/A
52101 Other Supplies	0	0	0	0	0	N/A
52115 Books/Media/Subscriptions	0	0	0	0	0	N/A
52117 Mail and Postage Supplies	0	0	0	0	0	N/A
52141 Minor Equipment/Small Tools	0	0	0	0	0	N/A
52143 Computer Software/Licensing Fees	0	0	0	0	0	N/A
52171 Water Conservation Program	0	0	0	0	0	N/A
52191 Utilities Expense	0	0	0	0	0	N/A
SUBTOTAL	222,342	85,000	0	15,000	15,000	N/A
<b>OTHER CHARGES</b>						
53103 Interest on LT Debt	0	0	0	0	0	N/A
53104 Other Interest Expense	0	0	0	0	0	N/A
53402 Depreciation Expense	5,966	6,000	6,000	6,000	0	0.00%
53501 Contributions	362,013	462,013	462,013	80,000	(382,013)	(82.68%)
SUBTOTAL	367,979	468,013	468,013	86,000	(382,013)	(81.62%)
<b>FIXED ASSETS</b>						
19831 CIP - Bldg & Impr	0	0	0	0	0	N/A
19832 CIP - Infrastructure	0	2,300	0	0	0	N/A
19841 Work in Progress - Intang	0	0	0	0	0	N/A
SUBTOTAL	0	2,300	0	0	0	N/A
<b>OTHER FINANCING USES</b>						
57011 Transfers Out - within a Fund	0	0	0	0	0	N/A
57012 Transfers Out - btw Govtl Fund	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>590,321</b>	<b>555,313</b>	<b>468,013</b>	<b>101,000</b>	<b>(367,013)</b>	<b>(78.42%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Outstanding Encumbrances - Net Change	191,187	0				
Change in Windsor Reserve	24,877	0				
Capital Interest	0	0		0		
Depreciation	5,966	6,000		6,000		
Audit Adjustment (A/P)	0	0		0		
Unrealized Gain/ Loss (GASB 31)	(14,328)	0		0		
Rounding	(1)	0				
<b>ENDING FUND BALANCE</b>	<b>407,407</b>	<b>342,639</b>		<b>307,496</b>		



**FY 2020-21 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Water Conservation

Fund/Department No:

44225

33041300

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>877,908</b>	<b>1,319,001</b>		<b>1,141,969</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	35,238	17,025	17,025	16,575	(450)	(2.64%)
44050 Unrealized Gains and Losses	20,201	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>55,439</b>	<b>17,025</b>	<b>17,025</b>	<b>16,575</b>	<b>(450)</b>	<b>(2.64%)</b>
<b>INTERGOVERNMENTAL REVENUE</b>						
42358 State Other Funding	41,342	292,045	185,250	283,148	97,898	52.85%
42461 Federal Other Funding	0	0	0	0	0	N/A
42610 Other Governmental Agencies	0	0	0	0	0	N/A
42611 City of Santa Rosa	0	0	0	0	0	N/A
42612 City of Petaluma	0	0	0	0	0	N/A
42613 City of Rohnert Park	0	0	0	0	0	N/A
42615 City of Cotati	0	0	0	0	0	N/A
42618 City of Sonoma	0	0	0	0	0	N/A
42619 Town of Windsor	133,450	114,156	114,156	104,105	(10,050)	(8.80%)
42621 North Marin Water District	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>174,792</b>	<b>406,201</b>	<b>299,406</b>	<b>387,253</b>	<b>87,848</b>	<b>29.34%</b>
<b>Charges for Services</b>						
45301 Charges for Services	50,893	40,000	0	15,000	15,000	N/A
45316 Water Conservation	6,548	25,000	0	0	0	N/A
<b>SUBTOTAL</b>	<b>57,440</b>	<b>65,000</b>	<b>0</b>	<b>15,000</b>	<b>15,000</b>	<b>N/A</b>
<b>OTHER FINANCING SOURCES</b>						
46021 Capital Gains - Federal	0	0	0	0	0	N/A
46022 Capital Grants - State	0	0	0	0	0	N/A
46029 Donations/Contributions	0	117,500	117,500	90,000	(27,500)	(23.40%)
46040 Miscellaneous Revenue	0	0	0	0	0	N/A
46041 Discounts Earned	1	0	0	0	0	N/A
46050 Cancelled/State Dated Warrants	0	0	0	0	0	N/A
46200 Revenue Appl PY Misc Revenue	0	38	0	0	0	N/A
46204 PY Intergovmntl Rev - Other	0	0	0	0	0	N/A
46215 Other Grants	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>1</b>	<b>117,538</b>	<b>117,500</b>	<b>90,000</b>	<b>(27,500)</b>	<b>(23.40%)</b>
<b>OTHER FINANCING SOURCES</b>						
47101 Transfers In - within a Fund	2,048,011	2,059,207	2,059,207	1,870,952	(188,255)	(9.14%)
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>2,048,011</b>	<b>2,059,207</b>	<b>2,059,207</b>	<b>1,870,952</b>	<b>(188,255)</b>	<b>(9.14%)</b>
<b>TOTAL REVENUES</b>	<b>2,335,684</b>	<b>2,664,971</b>	<b>2,493,138</b>	<b>2,379,780</b>	<b>(113,357)</b>	<b>(4.55%)</b>
<b>EXPENDITURES</b>						
<b>SERVICES AND SUPPLIES</b>						
51021 Communication Expense	0	0	0	0	0	N/A
51032 Janitorial Services	0	0	0	0	0	N/A
51061 Maintenance - Equipment	5,941	800	0	0	0	N/A
51205 Advertising/Marketing Svc	77,494	30,000	0	0	0	N/A
51209 Information Tech Svc (non ISD)	154	100	0	0	0	N/A

## Section Title:

Water Conservation

## Fund/Department No:

44225

33041300

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
51211 Legal Services	4,096	3,300	0	0	0	N/A
51214 Agency Extra/Temp Help	0	0	0	0	0	N/A
51225 Training Services	0	0	0	0	0	N/A
51230 Security Services	0	0	0	0	0	N/A
51241 Outside Printing and Binding	28,423	60,000	60,000	60,000	0	0.00%
51244 Permits/License	0	0	0	0	0	N/A
51249 Other Professional Services	0	0	0	0	0	N/A
51250 Planning/Mapping/Inspections	0	0	0	0	0	N/A
51301 Publications and Legal Notices	0	0	0	0	0	N/A
51401 Rents and Leases - Equipment	5,393	200	0	0	0	N/A
51601 Training Services	3,453	6,200	0	0	0	N/A
51602 Business Travel/Mileage	7,121	13,000	13,000	13,000	0	0.00%
51605 Private Car Expense	2,806	1,000	0	0	0	N/A
51801 Other Services	0	0	0	0	0	N/A
51803 Other Contract Services	288,496	169,800	169,800	334,100	164,300	96.76%
51902 Telecommunication Usage	29	0	0	0	0	N/A
51915 ISD Reprographics Services	0	0	0	0	0	N/A
51917 District Operations Chgs	1,443,271	1,503,907	1,503,907	1,560,000	56,093	3.73%
51921 Equipment Usage Charges	23,487	8,000	0	0	0	N/A
52021 Clothing, Uniforms	996	0	0	0	0	N/A
52031 Food	2,034	800	0	0	0	N/A
52042 Janitorial Supplies	0	0	0	0	0	N/A
52061 Fuel/Gas/Oil	0	0	0	0	0	N/A
52071 Materials and Supplies Expense	47,023	75,000	75,000	75,000	0	0.00%
52091 Memberships/Certifications	6,202	12,000	12,000	12,000	0	0.00%
52101 Other Supplies	0	0	0	0	0	N/A
52111 Office Supplies	1,389	2,400	0	0	0	N/A
52112 Office Furniture/Fixtures	0	0	0	0	0	N/A
52114 Freight/Postage	0	0	0	0	0	N/A
52115 Books/Media/Subscriptions	302	80	0	0	0	N/A
52117 Mail and Postage Supplies	156	0	0	0	0	N/A
52141 Minor Equipment/Small Tools	7,473	2,000	0	0	0	N/A
52142 Computer Equipment/Accessories	0	0	0	0	0	N/A
52162 Special Department Expense	0	0	0	0	0	N/A
52171 Water Conservation Program	44,342	846,970	528,250	470,000	(58,250)	(11.03%)
52181 Business Meals/Supplies	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>2,000,080</b>	<b>2,735,557</b>	<b>2,361,957</b>	<b>2,524,100</b>	<b>162,143</b>	<b>6.86%</b>
<b>OTHER CHARGES</b>						
53500 Contributions Non-County Agy	0	0	0	0	0	N/A
53501 Contributions	1,693	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>1,693</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>OTHER FINANCING USES</b>						
57011 Transfers Out - within a Fund	0	0	0	0	0	N/A
57012 Transfers Out - btw Govtl Fund	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>TOTAL EXPENDITURES</b>	<b>2,001,773</b>	<b>2,735,557</b>	<b>2,361,957</b>	<b>2,524,100</b>	<b>162,143</b>	<b>6.86%</b>

## Adjustments to Reserves/Encumbrances:

Outstanding Encumbrances - Net Change	111,617	0	0
Change in Windsor Reserve	15,878	(106,446)	0
Change in Prepaid Expense	(110)	0	0
Unrealized Gain/ Loss (GASB 31)	(20,201)	0	0
Rounding	(2)	0	0

<b>ENDING FUND BALANCE</b>	<b>1,319,001</b>	<b>1,141,969</b>	<b>997,649</b>
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**Water Transmission Budget**  
2020-21

**Itemized Detail for Subfunds Consulting/Contractual Services**

**Budget**  
**FY20-21**

**Water Management Planning**

<p>Water Demand Analysis/ Financial Modeling: Develop scope, cost, energy requests, and schedule of transmission system projects required to meet Sonoma Water's portion of UWMP-identified projected demands through the Urban Water Management planning horizon. Projects will be identified using Sonoma Water's transmission system hydraulic model. Next UWMP due July 1, 2021.</p>	<p>\$ 125,000</p>
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**Watershed Planning/Restoration**

<p><u>RRIFR Decision 1610 Change Petition:</u> Russian River Flows: Assist in preparation of draft and final Environmental Impact Report for Fish Habitat Flows and Water Rights Project in preparation for Board of Directors consideration for certification. Consultant services for responses to comments on the Draft EIR, preparation of recirculated Draft EIR, and any additional impact analysis, flow modeling, hydroelectric analysis, water quality monitoring, climate change modeling (USGS), EIR, and hydrologic index evaluation needed. Work is occurring internally on the Environmental Impact Report for the Fish Habitat Flows and Water Rights Project. The EIR is being prepared by Water Agency staff, with assistance from consultants on some areas of analysis. A draft EIR was released on August 19, 2016. In FY20/21, most of the work will focus on preparing the recirculated Draft EIR and, reviewing public comments. Work also includes submission of annual Temporary Urgency Change (TUC) Petition to the State Board to approve the requested changes to minimum in-stream flows as identified in the Biological Opinion and fisheries and water quality monitoring and reporting required by the State Board TUC Order. Compared to FY18-19, the Decision 1610 Change Petition budget has decreased approximately \$500,000. The decrease is attributable to the level of effort to prepare the recirculated Draft EIR. Work anticipated for FY20-21 includes work on the recirculated draft EIR, preparation of the final EIR, and presentation to the Board of Directors to certify, as well as monitoring and reporting related to the annual TUC.</p>	<p>\$ 132,000</p>
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<p><u>RRIFR Estuary Management:</u> Required Annual Biological Opinion Activities: The Water Agency, in consultation with NMFS, California Department of Fish &amp; Wildlife (CDFW) and the U.S. Army Corps of Engineers (Corps), is required to annually prepare a lagoon outlet adaptive management plan by April 1; conduct and record monthly surveys of the beach topography and the outlet channel; use a time lapse video camera to record the interaction of waves, tides and the river mouth; conduct baseline monitoring of seals and other pinnipeds, conduct estuary water quality monitoring, conduct extensive surveys of estuary invertebrates; conduct juvenile steelhead and coho salmon rearing surveys, and prepare annual reports. Other FY20/21 activities include installation and monitoring of downstream migrant salmonid traps and water quality monitoring stations, and flood risk feasibility studies. Compared to FY18-19, the Estuary Management budget has decreased approximately \$260,000 due to completion of stipulated judgment requirements from the Estuary EIR litigation, removal of groundwater wells used for the jetty study, and reductions in contract services. Work anticipated for FY20-21 includes preparation of the annual adaptive management plan and continuation of required monitoring and studies.</p>	<p>\$ 240,000</p>
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<p><u>Upper Russian River Water Quality Monitoring:</u> This is new water quality monitoring in FY19-20 for the Upper Russian River, including the East Fork Russian River above Lake Mendocino and Lake Mendocino to contribute to planning and modeling efforts for the Potter Valley Project (PVP), Lake Mendocino management, Fish Habitat Flows and Water Rights Project, and the Forecast Informed Reservoir Operations (FIRO) projects. Monitoring will include the deployment of datasondes and collection of grab samples, as well as laboratory analysis. Work anticipated for FY20-21 includes the efforts described above.</p>	<p>\$ 66,000</p>
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<p><u>Winter Russian River Algae /WQ Monitoring:</u> This is new water quality monitoring in FY19-20 for over winter water quality and algae monitoring on the mainstem Russian River to collect data on conditions during changes in watershed hydrology. Monitoring will include deployment of datasondes, collection of grab samples, sampling of algae, as well as laboratory analysis. Work anticipated for FY20-21 includes the efforts described above.</p>	<p>\$ 14,000</p>
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2/19/2020

## Water Transmission Budget

2020-21

### Itemized Detail for Subfunds Consulting/Contractual Services

	Budget FY20-21
<u>Climate Change Modeling</u> : The California-Nevada Climate Applications Program (CNAP) of the Scripps Institute of Oceanography will complete climate downscaling of global climate model simulations for the Russian River Watershed. Results of these downscaled climate change projections will be evaluated with the Russian River Precipitation Runoff Modeling System (PRMS) developed by the USGS to simulate projected changes in hydrology. These hydrologic datasets can be used to assess the potential impacts of climate change to the water supply reliability of the Russian River System. The efforts of this project will build off previous work that Sonoma Water has collaborated on with the USGS since 2009 which has been used to support a number of critical projects including the Fish Flow EIR, and urban water management plans.	\$ 50,000
	\$ 502,000
<b><u>Recycled Water and Local Supply</u></b>	
Funding for Groundwater Management in FY 20/21 for Groundwater Sustainability activities.	\$ 80,000
	\$ 80,000
<b><u>Water Conservation</u></b>	
<b><u>51241-Outside Printing and Binding</u></b>	
WUE Program materials, water education calendar, and Green Business Program brochures, Garden Sense materials, Russian River Friendly Workshop	\$ 60,000
<b><u>51602-Business Travel/Mileage</u></b>	
Attend local and statewide meetings representing the Partnership and Sonoma Water	\$ 13,000
<b><u>51803-Other Contract Services</u></b>	
Community Resilience Challenge: Event provides training and local workshops to promote water use efficiency	\$ 7,000
Garden Sense Contract: Funding provides onsite visits by local master gardeners to support local turf removal programs	\$ 20,000
Green Business Program: Funding to staff a part time position which provides water assessments for local businesses pursuing the Green Business Certification	\$ 30,000
Online Educational Content: Development of online educational content	\$ 25,000
Plant Labeling Program: Funding for nursery liaison to ensure locally appropriate plants are labeled	\$ 17,000
QWEL: Local instructors to teach QWEL trainings and Database maintenance contract	\$ 52,000
Sonoma County Fair: Materials and hardware that are WUE focused for distribution at the Sonoma County fair	\$ 15,000
Sonoma Marin Saving Water Partnership Website: Website hosting and maintenance	\$ 4,000
Water Education Bus Contract to shuttle kids from school to field study sites	\$ 41,800
Water Loss Programs: Technical assistance for regional water loss meetings and supply meter assessment and testing plan, Prop 1 grant for leakage component analysis.	\$ 122,300
	\$ 334,100

2/19/2020

**Water Transmission Budget  
2020-21**

**Itemized Detail for Subfunds Consulting/Contractual Services**

**Budget  
FY20-21**

**51917-District Operations Chgs**

Salaries, benefits and overhead costs for staff assigned to projects budgeted within the Water Conservation Fund.	\$ 1,560,000
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**52071-Materials and Supplies Expense**

Water Ed Teaching Materials: pH strips, fabric for displays, youth outreach displays, pencil sharpeners, pencils, classroom testing kits, maps, workbooks, rulers, toothbrushes, stickers, etc.	\$ 75,000
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**52091-Memberships/Certifications**

Irrigation Association Certificate Renewals, Water Education Foundation, and California Water Efficiency Partnership, Alliance for Water Efficiency, etc.	\$ 12,000
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**52171-Water Conservation Program**

Outdoor Water Use Focused Programs: Qualified Water Efficient Landscaper Training in English and Spanish, Garden Sense funding provides onsite visits by local master gardeners to support local turf removal programs, Community Resilience Challenge event provides training and local workshops to promote water use efficiency; Plant labeling Program, Russian River Friendly Workshops, etc.	\$ 31,000
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Public Information/Outreach Programs: Media campaign for the Sonoma-Marín Saving Water Partnership including media ad buy, ad development, DIY toolkits	\$ 163,000
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Rainwater Harvesting Rebates: Prop 1 grant for rebate program for installation of rainwater harvesting cisterns.	\$ 31,000
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Saving Water Partnership Wholesaler Support: Act as the regional liaison attend meetings of the CalWEP Board, Alliance for Water Efficiency, Independent Technical Panel, Urban Advisory Group, CA Science Teachers Association, environmental education conference, Fire Rebuild	\$ 35,000
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School Education Program: Such as assembly program, port-a-potties, steelhead in the classroom program, youth outreach events, teacher program, English as a second language program, educational workbooks, maps	\$ 70,000
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Seminars, Workshops, Training: Host trainings/ workshops to benefit the Partnership, such as Water Loss, WELO; Participation in national/ statewide studies such as Turf Transformation Study	\$ 30,000
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Smart Controller Program: The smart controller program is a new incentive program through the Sonoma-Marín Saving Water Partnership. The program will offer smart controllers to customers of participating agencies at a reduced price. Funding for the program will come directly from members of the Partnership (contractors) that offer the program to their customers. Sonoma Water is coordinating the program and will receive invoices from the vendor. In turn, Sonoma Water will invoice the agencies using the program. As such, the majority of the costs incurred through the program will be offset by revenue received from participating contractors.	\$ 110,000
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\$ 470,000

Total \$ 2,524,100

**FY 2020-21 BUDGET**  
**BEGINNING AND ENDING CASH SUMMARY**

Section Title:  
Fund/Department No:

Santa Rosa Aqueduct Capital Fund	
44230	33045000

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>7,165,271</b>	<b>7,304,567</b>		<b>6,908,157</b>		

**REVENUES**

USE OF MONEY / PROPERTY

44002 Interest on Pooled Cash	149,793	56,750	56,750	55,250	(1,500)	(2.64%)
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains & Los	101,656	(65,000)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>251,449</b>	<b>(8,250)</b>	<b>56,750</b>	<b>55,250</b>	<b>(1,500)</b>	<b>(2.64%)</b>

MISCELLANEOUS REVENUES

46040 Miscellaneous Revenue	0	0	0	0	0	N/A
46021 Capital Grants - Federal	136,828	0	0	2,400,000	2,400,000	N/A
46029 Donations/Contributions	0	0	0	0	0	N/A
	0	0	0	0		
<b>SUBTOTAL</b>	<b>136,828</b>	<b>0</b>	<b>0</b>	<b>2,400,000</b>	<b>2,400,000</b>	<b>N/A</b>

ADMINISTRATIVE CONTROL ACCOUNT

49002 Advances	0	0	0	0	0	N/A
49003 Advances Clearing	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

OTHER FINANCING SOURCES

47101 Transfers In - within a F	516,915	561,741	561,741	546,474	(15,266)	(2.72%)
47102 Transfers In - btw Govtl	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>516,915</b>	<b>561,741</b>	<b>561,741</b>	<b>546,474</b>	<b>(15,266)</b>	<b>(2.72%)</b>

SPECIAL ITEMS

48004 Residual Equity Transfe	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

<b>TOTAL REVENUES</b>	<b>905,193</b>	<b>553,491</b>	<b>618,491</b>	<b>3,001,724</b>	<b>2,383,234</b>	<b>385.33%</b>
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**EXPENDITURES**

OTHER CHARGES

53103 Interest on LT Debt	0	0	0	0		
53104 Other Interest Expense	0	0	0	0		
53105 Costs of Issuance	0	0	0	0		
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

FIXED ASSETS

19820 Machinery and Equipme	0	0	0	0		
19822 Mobile Equipment	0	0	0	0		
19824 Computer Equipment	0	0	0	0		
19831 CIP - Bldg & Impr	0	0	0	0		
19832 CIP - Infrastructure	358,633	949,900	0	9,544,565	9,544,565	N/A
19840 Work in Progress - Eqt	0	0	0	0		

Section Title:  
Fund/Department No:

**Santa Rosa Aqueduct Capital Fund**

**44230      33045000**

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
19841 Work in Progress - Intar	0	0	0	0		
19851 Intangible Assets - Non-	0	0	0	0		
SUBTOTAL	358,633	949,900	0	9,544,565	9,544,565	N/A
<b>OTHER FINANCING USES</b>						
57011 Transfers Out - within a	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>358,633</b>	<b>949,900</b>	<b>0</b>	<b>9,544,565</b>	<b>9,544,565</b>	<b>N/A</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Repayment of Loan to Storage	0	0		0		
Unrealized Gain/ Loss (GASB 31)	(305,608)	0		0		
Capitalized Interest	(101,656)	0		0		
Rounding	0	0		0		
<b>ENDING FUND BALANCE</b>	<b>7,304,567</b>	<b>6,908,157</b>		<b>365,316</b>		



**FY 2020-21 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Petaluma Aqueduct Capital Fund

Fund/Department No:

44235

33045100

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>8,031,065</b>	<b>8,404,890</b>		<b>6,223,111</b>		

**REVENUES**

**USE OF MONEY / PROPERTY**

44002 Interest on Pooled Cash	167,083	56,750	56,750	55,250	(1,500)	(2.64%)
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains & Losses	114,278	(70,000)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>281,361</b>	<b>(13,250)</b>	<b>56,750</b>	<b>55,250</b>	<b>(1,500)</b>	<b>(2.64%)</b>

**ADMINISTRATIVE CONTROL ACCOUNT**

49002 Advances	0	0	0	0	0	N/A
49003 Advances Clearing	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

**OTHER FINANCING SOURCES**

47101 Transfers In - within a Fund	276,405	328,090	328,090	332,486	4,396	1.34%
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>276,405</b>	<b>328,090</b>	<b>328,090</b>	<b>332,486</b>	<b>4,396</b>	<b>1.34%</b>

<b>TOTAL REVENUES</b>	<b>557,766</b>	<b>314,840</b>	<b>384,840</b>	<b>387,736</b>	<b>2,896</b>	<b>0.75%</b>
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**EXPENDITURES**

**OTHER CHARGES**

53103 Interest on LT Debt	0	0	0	0		
53104 Other Interest Expense	0	0	0	0		
53105 Costs of Issuance	0	0	0	0		
53403 Loss - Disposed Capital Asset	0	0	0	0		
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

**FIXED ASSETS**

19820 Machinery and Equipment	0	0	0	0		
19822 Mobile Equipment	0	0	0	0		
19824 Computer Equipment	0	0	0	0		
19831 CIP - Bldg & Impr	0	0	0	0		
19832 CIP - Infrastructure	69,663	2,496,619	1,866,000	64,845	(1,801,155)	(96.52%)
19840 Work in Progress - Eqt	0	0	0	0	0	N/A
19841 Work in Progress - Intang	0	0	0	0	0	N/A
19851 Intangible Assets - Non-amort	0	0	0	0		
<b>SUBTOTAL</b>	<b>69,663</b>	<b>2,496,619</b>	<b>1,866,000</b>	<b>64,845</b>	<b>(1,801,155)</b>	<b>(96.52%)</b>

Section Title:

Petaluma Aqueduct Capital Fund

Fund/Department No:

44235

33045100

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
<b><u>SPECIAL ITEMS</u></b>						
56030 Residual Equity Transfers	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b><u>OTHER FINANCING USES</u></b>						
57011 Transfers Out - within a Fund	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>69,663</b>	<b>2,496,619</b>	<b>1,866,000</b>	<b>64,845</b>	<b>(1,801,155)</b>	<b>(96.52%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Advance to Common	0	0		0		
Increase/(Decrease) in Loan Payable	0	0		0		
Capitalized Interest	0	0		0		
Loss on Fixed Asset	0	0		0		
Principal Received on Loan	0	0		0		
Unrealized Gain/ Loss (GASB 31)	(114,278)	0		0		
<b>ENDING FUND BALANCE</b>	<b>8,404,890</b>	<b>6,223,111</b>		<b>6,546,001</b>		

**FY 2020-21 BUDGET**  
**BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Sonoma Aqueduct Capital Fund

Fund/Department No:

44240

33045200

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>1,134,546</b>	<b>1,535,363</b>		<b>32,302</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	27,770	20,000	2,270	2,210	(60)	(2.64%)
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains & Losses	18,197	(10,000)	0	0	0	N/A
SUBTOTAL	45,967	10,000	2,270	2,210	(60)	(2.64%)
<b>OTHER FINANCING SOURCES</b>						
47101 Transfers In - within a Fund	562,849	3,100,262	100,262	622,845	522,583	521.22%
47102 Transfers In - btw Govtl Fund	0	0	0	0	0	N/A
SUBTOTAL	562,849	3,100,262	100,262	622,845	522,583	521.22%
<b>SPECIAL ITEMS</b>						
48004 Residual Equity Transfers	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL REVENUES</b>	<b>608,896</b>	<b>3,110,262</b>	<b>102,532</b>	<b>625,055</b>	<b>522,523</b>	<b>509.62%</b>
<b>EXPENDITURES</b>						
<b>OTHER CHARGES</b>						
53103 Interest on LT Debt	0	0	0	0		
53104 Other Interest Expense	0	0	0	0		
53105 Costs of Issuance	0	0	0	0		
53403 Loss-Disposed Capital Asset	0	0	0	0		
SUBTOTAL	0	0	0	0	0	N/A
<b>FIXED ASSETS</b>						
19820 Machinery and Equipment	0	0	0	0		
19822 Mobile Equipment	0	0	0	0		
19824 Computer Equipment	0	0	0	0		
19831 CIP - Bldg & Impr	0	483,323	0	0		
19832 CIP - Infrastructure	477,984	4,130,000	4,130,000	627,000	(3,503,000)	(84.82%)
19840 Work in Progress - Eqt	0	0	0	0		
19841 Work in Progress - Intang	0	0	0	0		
19851 Intangible Assets - Non-amor	0	0	0	0		
SUBTOTAL	477,984	4,613,323	4,130,000	627,000	(3,503,000)	(84.82%)
<b>OTHER FINANCING USES</b>						
57011 Transfers Out - within a Fund	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>477,984</b>	<b>4,613,323</b>	<b>4,130,000</b>	<b>627,000</b>	<b>(3,503,000)</b>	<b>(84.82%)</b>

Section Title:

Sonoma Aqueduct Capital Fund

Fund/Department No:

44240

33045200

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
<b>Adjustments to Reserves/Encumbrances:</b>						
Outstanding Encumbrances - Net Change	288,102	0		0		
Sale or Purchase of Fixed Asset	0	0		0		
Unrealized Gain/ Loss (GASB 31)	(18,197)	0		0		
Rounding	1					
<b>ENDING FUND BALANCE</b>	<b>1,535,363</b>	<b>32,302</b>		<b>30,357</b>		

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**FY 2020-21 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Storage Facilities

Fund/Department No:

44250

33043000

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
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<b>BEGINNING FUND BALANCE</b>	<b>20,239</b>	<b>406,047</b>		<b>8,042</b>		
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**REVENUES**

**USE OF MONEY / PROPERTY**

44002 Interest on Pooled Cash	(873)	5,000	0	0	0	N/A
44050 Unrealized Gains & Losses	(1,209)	1,100	(2,000)	0	2,000	(100.00%)
<b>SUBTOTAL</b>	<b>(2,083)</b>	<b>6,100</b>	<b>(2,000)</b>	<b>0</b>	<b>2,000</b>	<b>(100.00%)</b>

**MISCELLANEOUS REVENUE**

46021 Capital Grants - Federal	0	0	0	0	0	N/A
46022 Capital Grants - State	0	0	0	0	0	N/A
46029 Donations/Contributions	0	0	0	0	0	N/A
46040 Miscellaneous Revenue	0	0	0	0	0	N/A
46041 Discounts Earned	18	0	0	0	0	N/A
46200 PY Revenue - Miscellaneous	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

**Administrative Control**

49002 Advances	0	0	0	0	0	N/A
49003 Advances Clearing	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

**OTHER FINANCING SOURCES**

47101 Transfers In - within a Fund	640,000	475,000	75,000	150,000	75,000	100.00%
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>640,000</b>	<b>475,000</b>	<b>75,000</b>	<b>150,000</b>	<b>75,000</b>	<b>100.00%</b>

<b>TOTAL REVENUES</b>	<b>637,935</b>	<b>481,100</b>	<b>73,000</b>	<b>150,000</b>	<b>77,000</b>	<b>105.48%</b>
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**EXPENDITURES**

**OTHER CHARGES**

53103 Interest on LT Debt	0	0	0	0	0	N/A
53104 Other Interest Expense	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

**FIXED ASSETS**

19831 CIP - Bldg & Impr	0	0	0	0	0	N/A
19832 CIP - Infrastructure	145,155	878,605	0	100,000	100,000	N/A
19841 Acq-WIP-Intangibles	28,912	500	0	50,000	50,000	N/A
19851 Intangible Assets - Non-amort	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>174,067</b>	<b>879,105</b>	<b>0</b>	<b>150,000</b>	<b>150,000</b>	<b>N/A</b>

## Section Title:

Storage Facilities

Fund/Department No:

44250

33043000

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
<b>ADMINISTRATIVE CONTROL ACCOUNT</b>						
59002 Advances	0	0	0	0	0	N/A
59003 Advances Clearing	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>OTHER FINANCING USES</b>						
57011 Transfers Out - within a Fund	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>174,067</b>	<b>879,105</b>	<b>0</b>	<b>150,000</b>	<b>150,000</b>	<b>N/A</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Repayment of Loan from SR Aqueduct Ca	0	0		0		
Princ. Pymnt on loan from SR Aqueduct C.	0	0		0		
Advances	0	0		0		
Outstanding Encumbrances - Net Change	(79,270)	0		0		
PY CIP adjustment - reclass to PY Exp	0	0		0		
B & I Tsfrs	0	0		0		
LTD Proceeds	0	0		0		
Capitalized Interest	0	0		0		
Move Project CIP Balance	0	0		0		
Unrealized Gain/ Loss (GASB 31)	1,209	0		0		
PY Encumbrances	0	0		0		
Rounding	1					
<b>ENDING FUND BALANCE</b>	<b>406,047</b>	<b>8,042</b>		<b>8,042</b>		

**FY 2020-21 BUDGET**  
**BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Common Facilities

Fund/Department No:

44260

33043200

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	2,680,583	1,519,355		2,030,412		

**REVENUES**

USE OF MONEY / PROPERTY

44002 Interest on Pooled Cash	45,847	22,700	22,700	22,100	(600)	(2.64%)
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains & Losses	16,377	(13,000)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>62,224</b>	<b>9,700</b>	<b>22,700</b>	<b>22,100</b>	<b>(600)</b>	<b>(2.64%)</b>

CHARGES FOR SERVICES

45062 Construct/Bldg Permit Rvw Svc	60	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>60</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

MIECELLANEOUS REVENUES

46021 Capital Grants - Federal	0	5,759,578	5,759,578	0	(5,759,578)	(100.00%)
46022 Capital Grants - State	0	0	0	0	0	N/A
46029 Donations/Contributions	0	0	0	0	0	N/A
46040 Miscellaneous Revenue	0	0	0	0	0	N/A
46041 Discounts Earned	0	0	0	0	0	N/A
46200 Revenue Appl PY Misc Revenu	0	1,500	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>5,761,078</b>	<b>5,759,578</b>	<b>0</b>	<b>(5,759,578)</b>	<b>(100.00%)</b>

ADMINISTRATIVE CONTROL

49002 Advances	0	0	0	0	0	N/A
49003 Advances Clearing	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

OTHER FINANCING SOURCES

47101 Transfers In - within a Fund	1,500,000	13,786,177	4,526,170	561,701	(3,964,469)	(87.59%)
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>1,500,000</b>	<b>13,786,177</b>	<b>4,526,170</b>	<b>561,701</b>	<b>(3,964,469)</b>	<b>(87.59%)</b>

<b>TOTAL REVENUES</b>	<b>1,562,284</b>	<b>19,556,955</b>	<b>10,308,448</b>	<b>583,801</b>	<b>(9,724,647)</b>	<b>(94.34%)</b>
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**EXPENDITURES**

OTHER CHARGES

53103 Interest on LT Debt	0	0	0	0	0	N/A
53104 Other Interest Expense	0	0	0	0	0	N/A
53403 Loss - Disposed Capital Asset	638,613	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>638,613</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

FIXED ASSETS

19810 Land	0	0	0	0	0	N/A
19812 Acq-CIP-Land	0	0	0	0	0	N/A
19831 CIP - Bldg & Impr	0	0	0	0	0	N/A
19832 CIP - Infrastructure	2,066,642	18,028,898	4,975,000	1,961,401	(3,013,599)	(60.57%)
19840 Acq-WIP-Equipment	0	0	0	0	0	N/A
19841 Work in Progress - Intang	0	625,000	0	250,000	250,000	N/A



## Section Title:

Common Facilities

Fund/Department No:

44260

33043200

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
19851 Intangible Assets - Non-amort	0	392,000	0	0	0	N/A
<b>SUBTOTAL</b>	<b>2,066,642</b>	<b>19,045,898</b>	<b>4,975,000</b>	<b>2,211,401</b>	<b>(2,763,599)</b>	<b>(55.55%)</b>
<b>OTHER FINANCING USES</b>						
57011 Transfers Out - within a Fund	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>ADMINISTRATIVE CONTROL ACCOUNT</b>						
59002 Advances	0	0	0	0	0	N/A
59003 Advances Clearing	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>TOTAL EXPENDITURES</b>	<b>2,705,254</b>	<b>19,045,898</b>	<b>4,975,000</b>	<b>2,211,401</b>	<b>(2,763,599)</b>	<b>(55.55%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Loan from Petaluma Aqueduct Capital Func	0	0		0		
Principal payment on Loan from Petaluma /	0	0		0		
Advances	0	0		0		
Outstanding Encumbrances - Net Change	(771,662)	0		0		
Capitalized Interest	0	0		0		
Gain/loss on disposal of Capital Assets	638,613	0		0		
Proceeds from State Loan & Other LT Debt	0	0		0		
PY CIP adjustment - reclass to PY Exp (los:	0	0		0		
B & I Tsfr to ISF (Facilities) Fund	0	0		0		
Auditor Adj - Reversal of Duplicate Pymt	0	0		0		
Sale or Purchase of Fixed Asset	0	0		0		
Change in Deposit w/Others	0	0		0		
Move Project CIP Balance	0	0		0		
Change in Contingent Liability	0	0		0		
Post Audit Adjustment - Payables	131,169	0		0		
Unrealized Gain/ Loss (GASB 31)	(16,377)	0		0		
Rounding	(1)	0		0		
<b>ENDING FUND BALANCE</b>	<b>1,519,355</b>	<b>2,030,412</b>		<b>402,812</b>		

**FY 2020-21 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

North Marin Water Deposit

Fund/Department No:

44300

33045300

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
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<b>BEGINNING FUND BALANCE</b>	<b>13,578</b>	<b>13,946</b>		<b>16,934</b>		
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**REVENUES**

**USE OF MONEY / PROPERTY**

44002 Interest on Pooled Cash	368	381	381	371	(10)	(2.64%)
44050 Unrealized Gains and Losses	252	(200)	0	0	0	N/A
SUBTOTAL	620	181	381	371	(10)	(2.64%)

**Intergovernmental Revenue**

42610 Other Governmental Agencies	0	1,108,983	0	0	0	N/A
SUBTOTAL	0	1,108,983	0	0	0	N/A

**OTHER FINANCING SOURCES**

47101 Transfers In - within a Fund	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A

<b>TOTAL REVENUES</b>	<b>620</b>	<b>1,109,164</b>	<b>381</b>	<b>371</b>	<b>(10)</b>	<b>(2.64%)</b>
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**EXPENDITURES**

**OTHER CHARGES**

53501 Contributions	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A

**OTHER FINANCING USES**

57011 Transfers Out - within a Fund	0	1,106,177	462,570	0	(462,570)	(100.00%)
SUBTOTAL	0	1,106,177	462,570	0	(462,570)	(100.00%)

<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>1,106,177</b>	<b>462,570</b>	<b>0</b>	<b>(462,570)</b>	<b>(100.00%)</b>
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**Adjustments to Reserves/Encumbrances:**

Unrealized Gain/ Loss (GASB 31)	(252)	0				
Rounding		(0)				

<b>ENDING FUND BALANCE</b>	<b>13,946</b>	<b>16,934</b>		<b>17,305</b>		
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**FY 2020-21 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

State Loan Debt Service Fund

Fund/Department No:

44265

33047000

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>\$137,381</b>	<b>\$286,519</b>		<b>\$153,863</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	15,428	15,890	15,890	15,470	(420)	(2.64%)
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains and Losses	14,451	(9,300)	0	0	0	N/A
SUBTOTAL	29,880	6,590	15,890	15,470	(420)	(2.64%)
<b>OTHER FINANCING SOURCES</b>						
47101 Transfers In - within a Fund	1,196,268	1,196,268	1,196,268	1,196,267	(1)	(0.00%)
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	1,196,268	1,196,268	1,196,268	1,196,267	(1)	(0.00%)
<b>TOTAL REVENUES</b>	<b>1,226,148</b>	<b>1,202,858</b>	<b>1,212,158</b>	<b>1,211,737</b>	<b>(421)</b>	<b>(0.03%)</b>
<b>EXPENDITURES</b>						
<b>OTHER CHARGES</b>						
53103 Interest on LT Debt	246,501	224,175	224,175	201,220	(22,955)	(10.24%)
SUBTOTAL	246,501	224,175	224,175	201,220	(22,955)	(10.24%)
<b>OTHER FINANCING USES</b>						
57011 Transfers Out - within a Fund	0	250,000	150,000	150,000	0	0.00%
SUBTOTAL	0	250,000	150,000	150,000	0	0.00%
<b>ADMIN. CONTROL ACCOUNT</b>						
59002 Advances	793,730	816,058	816,058	839,012	22,954	2.81%
59003 Advances Clearing	(793,730)	(816,058)	(816,058)	(839,012)	(22,954)	2.81%
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>246,501</b>	<b>474,175</b>	<b>374,175</b>	<b>351,220</b>	<b>(22,955)</b>	<b>(6.13%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Principal payments on loan	(816,058)	0				
(Increase) / Decrease in Principal Payable	0	(839,012)		(839,012)		
Advances from Other Govt	(14,451)	(22,328)		(22,328)		
Unrealized Gain/ Loss (GASB 31)	1	0		0		
Rounding		1				
<b>ENDING FUND BALANCE</b>	<b>\$286,519</b>	<b>\$153,863</b>		<b>\$153,039</b>		

2/19/2020

**FY 2020-21 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

State Loan Reserve Fund

Fund/Department No:

44270

33047100

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
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<b>BEGINNING FUND BALANCE</b>	<b>\$0</b>	<b>\$0</b>		<b>\$3,900</b>		
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**REVENUES**

USE OF MONEY / PROPERTY

44002 Interest on Pooled Cash	19,420	15,000	0	0	0	N/A
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains and Losses	18,333	(11,100)	0	0	0	N/A
SUBTOTAL	37,753	3,900	0	0	0	N/A

OTHER FINANCING SOURCES

47101 Transfers In - within a Fund	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL REVENUES</b>	<b>37,753</b>	<b>3,900</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

**EXPENDITURES**

OTHER FINANCING USES

57011 Transfers Out - within a Fund	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

**Adjustments to Reserves/Encumbrances:**

Increase in Reserve	(19,420)	0		0		
Unrealized Gain/ Loss (GASB 31)	(18,333)					
Rounding						

<b>ENDING FUND BALANCE</b>	<b>\$0</b>	<b>\$3,900</b>		<b>\$3,900</b>		
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**FY 2020-21 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Storage Facilities Revenue Bond - 2012A

Fund/Department No:

44280

33047300

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>\$115,819</b>	<b>\$172,351</b>		<b>\$142,661</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	2,466	1,000	341	332	(10)	(2.79%)
44003 Other Interest Earnings	5,693	150	0	0	0	N/A
44050 Unrealized Gains and Losses	2,096	(1,500)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>10,255</b>	<b>(350)</b>	<b>341</b>	<b>332</b>	<b>(10)</b>	<b>(2.79%)</b>
<b>OTHER FINANCING SOURCES</b>						
47101 Transfers In - within a Fund	308,527	310,043	310,043	310,609	566	0.18%
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>308,527</b>	<b>310,043</b>	<b>310,043</b>	<b>310,609</b>	<b>566</b>	<b>0.18%</b>
<b>TOTAL REVENUES</b>	<b>318,782</b>	<b>309,693</b>	<b>310,384</b>	<b>310,941</b>	<b>556</b>	<b>0.18%</b>
<b>EXPENDITURES</b>						
<b>SERVICES AND SUPPLIES</b>						
51242 Bank Charges	873	1,500	1,500	1,000	(500)	(33.33%)
<b>SUBTOTAL</b>	<b>873</b>	<b>1,500</b>	<b>1,500</b>	<b>1,000</b>	<b>(500)</b>	<b>(33.33%)</b>
<b>OTHER CHARGES</b>						
53103 Interest on LT Debt	98,350	93,463	93,463	86,698	(6,765)	(7.24%)
53104 Other Interest Expense	(4,781)	5,526	5,526	5,526	0	0.00%
53105 Costs of Issuance	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>93,569</b>	<b>98,989</b>	<b>98,989</b>	<b>92,224</b>	<b>(6,765)</b>	<b>(6.83%)</b>
<b>OTHER FINANCING USES</b>						
57011 Transfers Out - within a Fund	0	65,000	15,000	80,000	65,000	433.33%
<b>SUBTOTAL</b>	<b>0</b>	<b>65,000</b>	<b>15,000</b>	<b>80,000</b>	<b>65,000</b>	<b>433.33%</b>
<b>ADMIN. CONTROL ACCOUNT</b>						
59004 Administrative Control Account	162,908	169,114	169,114	176,871	7,757	4.59%
59005 Admin Control Acct Clearing	(162,908)	(169,114)	(169,114)	(176,871)	(7,757)	4.59%
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>TOTAL EXPENDITURES</b>	<b>94,442</b>	<b>165,489</b>	<b>115,489</b>	<b>173,224</b>	<b>57,735</b>	<b>49.99%</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Principal payments on bonds	(162,908)	(169,114)		(176,871)		
Restricted cash with trustee (reserve)	0					
Debt Issuance Costs						
(Increase) / Decrease in Bonds Payable	0					
Amortization of bond discount	(10,307)	(10,307)		(10,307)		
Amortization of deferred amount of refunding	5,526	5,526		5,526		
Changed in Reserved Fund Balance	1,976					
Unrealized Gain/ Loss (GASB 31)	(2,096)					
Rounding	1					
<b>ENDING FUND BALANCE</b>	<b>\$172,351</b>	<b>\$142,661</b>		<b>\$98,725</b>		

**FY 2020-21 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Common Facilities Revenue Bonds - 2012 A

Fund/Department No:

44275

33047200

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
<b>BEG. FUND BALANCE</b>	<b>\$173,454</b>	<b>\$252,874</b>		<b>\$42,948</b>		
<b>REVENUES</b>						
<b><u>USE OF MONEY / PROPERTY</u></b>						
44002 Interest on Pooled Cash	3,687	2,000	908	884	(24)	(2.64%)
44003 Other Interest Earnings	7,972	300	0	0	0	N/A
44050 Unrealized Gains and Losses	3,094	(2,200)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>14,753</b>	<b>100</b>	<b>908</b>	<b>884</b>	<b>(24)</b>	<b>(2.64%)</b>
<b><u>OTHER FINANCING SOURCES</u></b>						
47101 Transfers In - within a Fund	431,957	434,081	434,081	435,105	1,024	0.24%
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>431,957</b>	<b>434,081</b>	<b>434,081</b>	<b>435,105</b>	<b>1,024</b>	<b>0.24%</b>
<b>TOTAL REVENUES</b>	<b>446,710</b>	<b>434,181</b>	<b>434,989</b>	<b>435,989</b>	<b>1,000</b>	<b>0.23%</b>
<b>EXPENDITURES</b>						
<b><u>SERVICES AND SUPPLIES</u></b>						
51242 Bank Charges	1,135	2,000	2,000	1,500	(500)	(25.00%)
<b>SUBTOTAL</b>	<b>1,135</b>	<b>2,000</b>	<b>2,000</b>	<b>1,500</b>	<b>(500)</b>	<b>(25.00%)</b>
<b><u>OTHER CHARGES</u></b>						
53103 Interest on LT Debt	137,715	130,872	130,872	121,400	(9,472)	(7.24%)
53104 Other Interest Expense	(6,645)	7,787	7,787	7,787	0	0.00%
53105 Costs of Issuance	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>131,070</b>	<b>138,659</b>	<b>138,659</b>	<b>129,187</b>	<b>(9,472)</b>	<b>(6.83%)</b>
<b><u>OTHER FINANCING USES</u></b>						
57011 Transfers Out - within a Fund	0	260,000	210,000	60,000	(150,000)	(71.43%)
<b>SUBTOTAL</b>	<b>0</b>	<b>260,000</b>	<b>210,000</b>	<b>60,000</b>	<b>(150,000)</b>	<b>(71.43%)</b>
<b><u>ADMIN. CONTROL ACCOUNT</u></b>						
59004 Administrative Control Account	228,113	236,803	236,803	247,665	10,862	4.59%
59005 Admin Control Acct Clearing	(228,113)	(236,803)	(236,803)	(247,665)	(10,862)	4.59%
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>TOTAL EXPENDITURES</b>	<b>132,205</b>	<b>400,659</b>	<b>350,659</b>	<b>190,687</b>	<b>(159,972)</b>	<b>(45.62%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Principal payments on bonds	(228,113)	(236,803)		(247,665)		
(Increase) / Decrease in Bonds Payable	0	0		0		
Restricted cash with trustee (reserve)	2,766	0		0		
Amortization of bond discount	0	0		0		
Amortization of bond premium	(14,432)	(14,432)		(14,432)		
Amortization of deferred amount of refunding	7,787	7,787		7,787		
Unrealized Gain/ Loss (GASB 31)	(3,094)	0		0		
Rounding	0			0		
<b>ENDING FUND BALANCE</b>	<b>\$252,874</b>	<b>\$42,948</b>		<b>\$33,940</b>		

**FY 2020-21 BUDGET**  
**BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Sonoma Aqueduct Revenue Bonds 2012

Fund/Department No:

44285

33047400

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>\$198,011</b>	<b>\$246,939</b>		<b>\$184,248</b>		
<b>REVENUES</b>						
<b><u>USE OF MONEY / PROPERTY</u></b>						
44002 Interest on Pooled Cash	4,154	1,400	1,362	1,326	(36)	(2.64%)
44003 Other Interest Earnings	4,682	120	0	0	0	N/A
44050 Unrealized Gains and Losses	3,181	(2,100)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>12,016</b>	<b>(580)</b>	<b>1,362</b>	<b>1,326</b>	<b>(36)</b>	<b>(2.64%)</b>
<b><u>OTHER FINANCING SOURCES</u></b>						
47101 Transfers In - within a Fund	254,094	255,341	255,341	255,705	363	0.14%
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>254,094</b>	<b>255,341</b>	<b>255,341</b>	<b>255,705</b>	<b>363</b>	<b>0.14%</b>
<b>TOTAL REVENUES</b>	<b>266,110</b>	<b>254,761</b>	<b>256,703</b>	<b>257,031</b>	<b>327</b>	<b>0.13%</b>
<b>EXPENDITURES</b>						
<b><u>SERVICES AND SUPPLIES</u></b>						
51242 Bank Charges	761	1,500	1,500	1,000	(500)	(33.33%)
<b>SUBTOTAL</b>	<b>761</b>	<b>1,500</b>	<b>1,500</b>	<b>1,000</b>	<b>(500)</b>	<b>(33.33%)</b>
<b><u>OTHER CHARGES</u></b>						
53103 Interest on LT Debt	80,886	76,867	76,867	71,303	(5,564)	(7.24%)
53104 Other Interest Expense	(3,892)	4,585	4,585	4,585	0	0.00%
53105 Costs of Issuance	0	0	0	0	0	N/A
53109 Capitalized Interest	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>76,993</b>	<b>81,452</b>	<b>81,452</b>	<b>75,888</b>	<b>(5,564)</b>	<b>(6.83%)</b>
<b><u>OTHER FINANCING USES</u></b>						
57011 Transfers Out - within a Fund	0	100,000	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b><u>ADMIN. CONTROL ACCOUNT</u></b>						
59004 Administrative Control Account	133,980	139,084	139,084	145,464	6,380	4.59%
59005 Admin Control Acct Clearing	(133,980)	(139,084)	(139,084)	(145,464)	(6,380)	4.59%
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>TOTAL EXPENDITURES</b>	<b>77,754</b>	<b>182,952</b>	<b>82,952</b>	<b>76,888</b>	<b>(6,064)</b>	<b>(7.31%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
(Increase)/Decrease in Bonds Payable						
Principal Payments on Bonds	(133,980)	(139,084)		(145,464)		
Amortization of bond discount	(8,477)	0		0		
Change in Reserved Fund Balance	1,625	0		0		
Capitalized Interest	0	0		0		
Amortization of deferred amount of refundir	4,584	4,584		4,584		
Unrealized Gain/ Loss (GASB 31)	(3,181)	0		0		
Rounding	1	(1)		0		
<b>ENDING FUND BALANCE</b>	<b>\$246,939</b>	<b>\$184,248</b>		<b>\$223,511</b>		

**FY 2020-21 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Storage Facilities Revenue Bonds 2015

Fund/Department No:

44290

33047500

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>\$542,839</b>	<b>\$452,144</b>		<b>\$117,311</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	12,209	3,000	681	663	(18)	(2.64%)
44003 Other Interest Earnings	7,215	0	0	0	0	N/A
44050 Unrealized Gains and Losses	19,416	(7,000)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>38,840</b>	<b>(4,000)</b>	<b>681</b>	<b>663</b>	<b>(18)</b>	<b>(2.64%)</b>
<b>Miscellaneous Revenues</b>						
46200 PY Revenue - Miscellaneous	(18,820)	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>(18,820)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>OTHER FINANCING SOURCES</b>						
47101 Transfers In - within a Fund	1,175,489	713,766	713,766	486,527	(227,239)	(31.84%)
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>1,175,489</b>	<b>713,766</b>	<b>713,766</b>	<b>486,527</b>	<b>(227,239)</b>	<b>(31.84%)</b>
<b>TOTAL REVENUES</b>	<b>1,195,509</b>	<b>709,766</b>	<b>714,447</b>	<b>487,190</b>	<b>(227,257)</b>	<b>(31.81%)</b>
<b>EXPENDITURES</b>						
<b>SERVICES AND SUPPLIES</b>						
51242 Bank Charges	1,175	4,000	4,000	1,500	(2,500)	(62.50%)
<b>SUBTOTAL</b>	<b>1,175</b>	<b>4,000</b>	<b>4,000</b>	<b>1,500</b>	<b>(2,500)</b>	<b>(62.50%)</b>
<b>OTHER CHARGES</b>						
53103 Interest on LT Debt	209,340	188,626	188,626	187,568	(1,058)	(0.56%)
53104 Other Interest Expense	(11,468)	5,058	5,058	5,058	0	0.00%
53105 Costs of Issuance	0	0	0	0	0	N/A
53109 Capitalized Interest	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>197,872</b>	<b>193,684</b>	<b>193,684</b>	<b>192,626</b>	<b>(1,058)</b>	<b>(0.55%)</b>
<b>OTHER FINANCING USES</b>						
57011 Transfers Out - within a Fund	640,000	410,000	60,000	70,000	10,000	16.67%
57012 Transfers Out - btw Govtl Fund	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>640,000</b>	<b>410,000</b>	<b>60,000</b>	<b>70,000</b>	<b>10,000</b>	<b>16.67%</b>
<b>ADMIN. CONTROL ACCOUNT</b>						
59004 Administrative Control Account	579,351	422,982	422,982	228,941	(194,041)	(45.87%)
59005 Admin Control Acct Clearing	(579,351)	(422,982)	(422,982)	(228,941)	194,041	(45.87%)
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>TOTAL EXPENDITURES</b>	<b>839,047</b>	<b>607,684</b>	<b>257,684</b>	<b>264,126</b>	<b>6,442</b>	<b>2.50%</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Change in Principal due to Bond Reallocation	169,067					
Change in Bond Premium due to Bond Reallo	5,391					
Capitalized Interest	0					
Loss on Refunding of Debt	5,058	5,058		5,058		
Principal Payment	(579,351)	(425,448)		(228,941)		
Special Fund Stmt's IB449	0	0		0		
Amortization of Bond Premium	(16,525)	(16,525)		(16,525)		
Change in Reserved Fund Balance	(11,379)					
Unrealized Gain/ Loss (GASB 31)	(19,416)					
Rounding	(2)	(0)				
<b>ENDING FUND BALANCE</b>	<b>\$452,144</b>	<b>\$117,311</b>		<b>\$99,967</b>		



**FY 2020-21 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Common Facilities Revenue Bonds 2015

Fund/Department No:

44295

33047600

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
<b>BEG. FUND BALANCE</b>	<b>\$1,981,742</b>	<b>\$117,878</b>		<b>\$60,099</b>		
<b>REVENUES</b>						
<b><u>USE OF MONEY / PROPERTY</u></b>						
44002 Interest on Pooled Cash	38,936	4,540	4,540	4,420	(120)	(2.64%)
44003 Other Interest Earnings	(27,507)	0	0	0	0	N/A
44050 Unrealized Gains and Losses	20,218	(13,200)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>31,647</b>	<b>(8,660)</b>	<b>4,540</b>	<b>4,420</b>	<b>(120)</b>	<b>(2.64%)</b>
<b><u>MISCELLANEOUS REVENUES</u></b>						
46200 PY Revenue - Miscellaneous	71,753	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>71,753</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b><u>OTHER FINANCING SOURCES</u></b>						
47101 Transfers In - within a Fund	367,527	1,030,030	1,030,030	1,237,202	207,173	20.11%
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>367,527</b>	<b>1,030,030</b>	<b>1,030,030</b>	<b>1,237,202</b>	<b>207,173</b>	<b>20.11%</b>
<b>TOTAL REVENUES</b>	<b>470,926</b>	<b>1,021,370</b>	<b>1,034,570</b>	<b>1,241,622</b>	<b>207,053</b>	<b>20.01%</b>
<b>EXPENDITURES</b>						
<b><u>SERVICES AND SUPPLIES</u></b>						
51242 Bank Charges	2,335	4,500	4,500	2,500	(2,000)	(44.44%)
<b>SUBTOTAL</b>	<b>2,335</b>	<b>4,500</b>	<b>4,500</b>	<b>2,500</b>	<b>(2,000)</b>	<b>(44.44%)</b>
<b><u>OTHER CHARGES</u></b>						
53103 Interest on LT Debt	534,849	549,643	549,643	518,877	(30,766)	(5.60%)
53104 Other Interest Expense	(25,008)	4,516	4,516	4,516	0	0.00%
53105 Costs of Issuance	0	0	0	0	0	N/A
53109 Capitalized Interest	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>509,841</b>	<b>554,159</b>	<b>554,159</b>	<b>523,393</b>	<b>(30,766)</b>	<b>(5.55%)</b>
<b><u>OTHER FINANCING USES</u></b>						
57011 Transfers Out - within a Fund	1,000,000	170,000	120,000	120,000	0	0.00%
57012 Transfers Out - btw Govtl Fund	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>1,000,000</b>	<b>170,000</b>	<b>120,000</b>	<b>120,000</b>	<b>0</b>	<b>0.00%</b>
<b><u>ADMIN. CONTROL ACCOUNT</u></b>						
59004 Administrative Control Account	155,649	337,019	337,019	549,935	212,916	63.18%
59005 Admin Control Acct Clearing	(155,649)	(337,019)	(337,019)	(549,935)	(212,916)	63.18%
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>TOTAL EXPENDITURES</b>	<b>1,512,176</b>	<b>728,659</b>	<b>678,659</b>	<b>645,893</b>	<b>(32,766)</b>	<b>(4.83%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Principal Payment	(155,649)	(327,614)		(549,935)		
Change in Principal due to Bond Reallocati	(644,567)	0		0		
Change in Bond Premium due to Bond Re	(20,554)	0		0		
Revenue Bonds Pay - Change in Current E	0	0		0		
Amortization of Bond Premium	(29,523)	(27,390)		(27,390)		
Capitalized Interest	0					
Change in Reserved Fund Balance	43,380					
Loss on Refunding Debt	4,515	4,515		4,515		
Unrealized Gain/ Loss (GASB 31)	(20,218)	0		0		
Rounding	2	(0)		0		
<b>ENDING FUND BALANCE</b>	<b>\$117,878</b>	<b>\$60,099</b>		<b>\$83,018</b>		

2/19/2020

**FY 2020-21 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Sonoma Aqueduct Revenue Bonds 2015

Fund/Department No:

44305

33047700

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>\$7,557</b>	<b>\$65,448</b>		<b>\$61,692</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	604	500	0	0	0	N/A
44003 Other Interest Earnings	20,292	0	0	0	0	N/A
44050 Unrealized Gains and Losses	10,167	(3,500)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>31,063</b>	<b>(3,000)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>MISCELLANEOUS REVENUES</b>						
46200 PY Revenue - Miscellaneous	(52,932)	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>(52,932)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>OTHER FINANCING SOURCES</b>						
47101 Transfers In - within a Fund	197,992	47,394	47,394	38,073	(9,321)	(19.67%)
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>197,992</b>	<b>47,394</b>	<b>47,394</b>	<b>38,073</b>	<b>(9,321)</b>	<b>(19.67%)</b>
<b>TOTAL REVENUES</b>	<b>176,123</b>	<b>44,394</b>	<b>47,394</b>	<b>38,073</b>	<b>(9,321)</b>	<b>(19.67%)</b>
<b>EXPENDITURES</b>						
<b>SERVICES AND SUPPLIES</b>						
51242 Bank Charges	71	500	500	500	0	0.00%
<b>SUBTOTAL</b>	<b>71</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>0</b>	<b>0.00%</b>
<b>OTHER CHARGES</b>						
53103 Interest on LT Debt	16,655	40,712	40,712	16,482	(24,230)	(59.52%)
53104 Other Interest Expense	(689)	0	0	0	0	N/A
53105 Costs of Issuance	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>15,965</b>	<b>40,712</b>	<b>40,712</b>	<b>16,482</b>	<b>(24,230)</b>	<b>(59.52%)</b>
<b>OTHER FINANCING USES</b>						
57011 Transfers Out - within a Fund	550,000	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>550,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>ADMIN. CONTROL ACCOUNT</b>						
59004 Administrative Control Account	0	0	0	16,125	16,125	N/A
59005 Admin Control Acct Clearing	0	0	0	(16,125)	(16,125)	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>TOTAL EXPENDITURES</b>	<b>566,037</b>	<b>41,212</b>	<b>41,212</b>	<b>16,982</b>	<b>(24,230)</b>	<b>(58.79%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Change in Principal due to Bond Reallocation	475,500	0		0		
Change in Bond Premium due to Bond Realloc	15,163	0		0		
Accrual of Principal Payment - Revenue Bonds	0	(6,938)		(6,938)		
Principal Payment	0	0		(16,125)		
Amortization of Bond Premium	(689)	0		0		
Unrealized Gain/ Loss (GASB 31)	(10,167)	0		0		
Change in Reserved Fund Balance	(32,002)					
Rounding	0	0		0		
<b>ENDING FUND BALANCE</b>	<b>\$65,448</b>	<b>\$61,692</b>		<b>\$59,720</b>		

**FY 2020-21 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Common Facilities Revenue Bonds 2019

Fund/Department No:

44310

33047800

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
<b>BEG. FUND BALANCE</b>	<b>\$0</b>	<b>\$1,018,252</b>		<b>\$174,404</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	376	55,000	34,050	33,150	(900)	(2.64%)
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains and Losses	8,536	(8,600)	0	0	0	N/A
SUBTOTAL	8,912	46,400	34,050	33,150	(900)	(2.64%)
<b>OTHER FINANCING SOURCES</b>						
47101 Transfers In - within a Fund	1,017,876	649,709	649,709	677,117	27,408	4.22%
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	1,017,876	649,709	649,709	677,117	27,408	4.22%
<b>TOTAL REVENUES</b>	<b>1,026,788</b>	<b>696,109</b>	<b>683,759</b>	<b>710,267</b>	<b>26,508</b>	<b>3.88%</b>
<b>EXPENDITURES</b>						
<b>SERVICES AND SUPPLIES</b>						
51242 Bank Charges	0	3,790	3,790	2,000	(1,790)	(47.23%)
SUBTOTAL	0	3,790	3,790	2,000	(1,790)	(47.23%)
<b>OTHER CHARGES</b>						
53103 Interest on LT Debt	0	331,756	317,547	321,061	3,514	1.11%
53104 Other Interest Expense	0	0	0	0	0	N/A
53105 Costs of Issuance	0	175,000	0	0	0	N/A
SUBTOTAL	0	506,756	317,547	321,061	3,514	1.11%
<b>OTHER FINANCING USES</b>						
57011 Transfers Out - within a Fund	0	10,000,000	3,733,600	0	(3,733,600)	(100.00%)
57012 Transfers Out - btw Govtl Fund	0	0	0	0	0	N/A
SUBTOTAL	0	10,000,000	3,733,600	0	(3,733,600)	(100.00%)
<b>ADMIN. CONTROL ACCOUNT</b>						
59004 Administrative Control Account	0	250,973	243,627	265,736	22,109	9.07%
59005 Admin Control Acct Clearing	0	(250,973)	(243,627)	(265,736)	(22,109)	9.07%
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>10,510,546</b>	<b>4,054,937</b>	<b>323,061</b>	<b>(3,731,876)</b>	<b>(92.03%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Long Term Debt proceeds	0	0		0		
Increase/(Decrease) in Bonds Payable	0	0		0		
Unrealized Gains and Losses	0	0		0		
Proceeds Bond Issuance	0	8,127,078		0		
Deposit to Cost of Issuance Fund	0	0		0		
Restricted Cash w/Fiscal Agent	0	0		0		
Principal Payment	0	(250,973)		(265,736)		
Revenue Bonds Pay-Change in Current Bal	0	0		0		
Amortization of Bond Premium	0	0		0		
Change in Reserved Fund Balance	0	0		0		
Post Audit Adjustments - Closing COI	0	1,094,484		0		
Loss on Refunding of Debt	0	0		0		
Unrealized Gain/ Loss (GASB 31)	(8,536)	0		0		
Rounding	0	1		0		
<b>ENDING FUND BALANCE</b>	<b>\$1,018,252</b>	<b>\$174,404</b>		<b>\$295,874</b>		

**FY 2020-21 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Sonoma Aqueduct Revenue Bonds 2019

Fund/Department No:

44315

33047900

Account Title	Actual 2018-2019	Estimated 2019-2020	Adopted 2019-2020	Requested 2020-21	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>\$0</b>	<b>\$227,482</b>		<b>\$577,662</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	84	27,240	27,240	26,520	(720)	(2.64%)
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains and Losses	1,907	(2,000)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>1,991</b>	<b>25,240</b>	<b>27,240</b>	<b>26,520</b>	<b>(720)</b>	<b>(2.64%)</b>
<b>OTHER FINANCING SOURCES</b>						
47101 Transfers In - within a Fund	227,398	207,354	207,354	240,528	33,174	16.00%
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>227,398</b>	<b>207,354</b>	<b>207,354</b>	<b>240,528</b>	<b>33,174</b>	<b>16.00%</b>
<b>TOTAL REVENUES</b>	<b>229,389</b>	<b>232,594</b>	<b>234,594</b>	<b>267,048</b>	<b>32,454</b>	<b>13.83%</b>
<b>EXPENDITURES</b>						
<b>SERVICES AND SUPPLIES</b>						
51242 Bank Charges	0	1,210	1,210	1,000	(210)	(17.33%)
<b>SUBTOTAL</b>	<b>0</b>	<b>1,210</b>	<b>1,210</b>	<b>1,000</b>	<b>(210)</b>	<b>(17.33%)</b>
<b>OTHER CHARGES</b>						
53103 Interest on LT Debt	0	101,345	101,345	113,890	12,545	12.38%
53104 Other Interest Expense	0	0	0	0	0	N/A
53105 Costs of Issuance	0	62,000	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>163,345</b>	<b>101,345</b>	<b>113,890</b>	<b>12,545</b>	<b>12.38%</b>
<b>OTHER FINANCING USES</b>						
57011 Transfers Out - within a Fund	0	2,900,000	0	500,000	500,000	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>2,900,000</b>	<b>0</b>	<b>500,000</b>	<b>500,000</b>	<b>N/A</b>
<b>ADMIN. CONTROL ACCOUNT</b>						
59004 Administrative Control Account	0	77,753	77,753	94,265	16,512	21.24%
59005 Admin Control Acct Clearing	0	(77,753)	(77,753)	(94,265)	(16,512)	21.24%
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>3,064,555</b>	<b>102,554</b>	<b>614,890</b>	<b>512,336</b>	<b>499.57%</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Unrealized Gains and Losses	0	0		0		
Proceeds Bond Issuance	0	2,882,922		0		
Restricted Cash w/Fiscal Agent	0	0		0		
Accrual of Principal Payment - Revenue Bon	0	(89,028)		0		
Principal Payment	0	0		0		
Deposit to Cost of Issuance Fund	0	0		0		
Bond Premium - Issuance of Revenue Bonds	0	388,247		0		
Amortization of Bond Premium	0	0		0		
Unrealized Gain/ Loss (GASB 31)	(1,907)	0		0		
Change in Reserved Fund Balance	0	0		0		
Rounding	0	0		0		
<b>ENDING FUND BALANCE</b>	<b>\$227,482</b>	<b>\$577,662</b>		<b>\$229,820</b>		

**REVENUE BOND / STATE LOAN CHARGES - WATER RATES AND ESTIMATED REVENUES FOR FY20-21**

**A. ANNUAL DEBT SERVICE REQUIREMENTS**

	Common Facilities	Watershed Plan Restoration	Water Conservation	Storage Facilities	Sonoma Pipeline Facilities
<b>2012 A Revenue Bond</b>	<b>44275</b>	<b>TBD</b>	<b>TBD</b>	<b>44280</b>	<b>44285</b>
PRINCIPAL	247,665			176,871	145,464
INTEREST	121,400			86,698	71,303
OTHER INTEREST - DEFERRED REFUNDING CHARGE	7,787			5,526	4,585
FISCAL AGENT FEES	1,500			1,000	1,000
DEBT ISSUANCE COSTS					
Total Individual Bond Payments	378,352	0		270,095	222,352
Bond Reserve	56,753	0		40,514	33,353
<b>Total Individual Bond Debt Service</b>	<b>435,105</b>	<b>0</b>		<b>310,609</b>	<b>255,705</b>
<b>2015A Revenue Bond</b>	<b>44295</b>			<b>44290</b>	<b>44305</b>
PRINCIPAL	549,935			228,941	16,125
INTEREST	518,877			187,568	16,482
OTHER INTEREST - DEFERRED REFUNDING CHARGE	4,516			5,058	0
FISCAL AGENT FEES	2,500			1,500	500
DEBT ISSUANCE COSTS					
Total Individual Bond Payments	1,075,828			423,067	33,107
Bond Reserve	161,374			63,460	4,966
<b>Total Individual Bond Debt Service</b>	<b>1,237,202</b>			<b>486,527</b>	<b>38,073</b>
<b>2019A Revenue Bond</b>					
PRINCIPAL	265,736				94,265
INTEREST	321,061				113,890
FISCAL AGENT FEES	2,000				1,000
DEBT ISSUANCE COSTS					
Total Individual Bond Payments	588,797			0	209,155
Bond Reserve	88,320			0	31,373
<b>Total Individual Bond Debt Service</b>	<b>677,117</b>			<b>0</b>	<b>240,528</b>
<b>2013 Capital Fund Loan Requirement</b>					
PRINCIPAL	0				
INTEREST	0				
FISCAL AGENT FEES	0				
DEBT ISSUANCE COSTS	0				
DISCOUNT/BONDS	0				
Total Individual Loan Payments	0				
Loan Reserve					
<b>Total Individual Loan Debt Service</b>	<b>0</b>				
<b>2013 Santa Rosa AQ Capital Fund Loan</b>					
PRINCIPAL					
INTEREST					
FISCAL AGENT FEES					
DEBT ISSUANCE COSTS					
DISCOUNT/BONDS					
Total Individual Loan Payments					
Loan Reserve					
<b>Total Individual Loan Debt Service</b>	<b>0</b>			<b>0</b>	<b>0</b>
<b>2013 Petaluma AQ Capital Fund Loan</b>					
PRINCIPAL					
INTEREST					
FISCAL AGENT FEES					
DEBT ISSUANCE COSTS					
DISCOUNT/BONDS					
Total Individual Loan Payments					
Loan Reserve					
<b>Total Individual Loan Debt Service</b>	<b>0</b>			<b>0</b>	
<b>1. 09/10 Financing Exp for Common Fac incl above until index established</b>	<b>Mirabel Generators</b>	<b>TBD - RRIFR</b>	<b>TBD - Water Ed Bldg</b>	<b>TBD - Oakmont Pipeline</b>	
PRINCIPAL	0				
INTEREST	0				
FISCAL AGENT FEES	0				
DEBT ISSUANCE COSTS	0				
Total Individual Bond Payments	0	0	0	0	0
Reserve	0	0	0	0	0
<b>Total Individual Financing Debt Service</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

REVENUE BOND / STATE LOAN CHARGES - WATER RATES AND ESTIMATED REVENUES FOR FY20-21

A. ANNUAL DEBT SERVICE REQUIREMENTS

	Common Facilities	Watershed Plan Restoration	Water Conservation	Storage Facilities	Sonoma Pipeline Facilities
<b>SRF LOAN</b>	<b>44265</b>				
PRINCIPAL	839,012			N.A	N.A
INTEREST	201,220			N.A	N.A
Total Individual Loan Payments	1,040,232				
Reserve Requirement	156,035				
Total SRF Debt Service	1,196,267				
<b>SRF LOAN RESERVE</b>					
RESERVE				N.A	N.A
Total SRF Debt Service	1,196,267				
<b>TOTAL DEBT SERVICE</b>	<b>\$3,545,690</b>	<b>\$0</b>	<b>\$0</b>	<b>\$797,136</b>	<b>\$534,306</b>
LESS REV. FROM N. MARIN REV. BOND CHARGES	355,399				
<b>REMAINING REVENUE REQUIREMENT</b>	<b>\$3,190,292</b>	<b>\$0</b>	<b>\$0</b>	<b>\$797,136</b>	<b>\$534,306</b>

B. CALCULATIONS OF WATER RATES FOR FY20-21

	Common Facilities Debt Service Charge	Watershed Plan Restoration Debt Service Charge	Water Conservation Debt Service Charge	Storage Facilities Revenue Bonds Charge	Sonoma Pipeline Facilities Revenue Bonds Charge
REVENUE REQUIREMENT	\$3,190,291.83	\$0	\$0	\$797,136	\$534,306
APPLICABLE BASE WATER DELIVERIES IN A.F.	32,834.45	43,611.6	43,611.6	32,834.45	3,950.2
CHARGES PER ACRE-FEET	\$97.16	\$0.00	\$0.00	\$24.28	\$135.26

C. CALCULATIONS OF NORTH MARIN REVENUE BONDS CHARGE

REVENUE REQUIREMENT FOR COMMON FACILITIES DEBT SERVICE ( <i>Remaining Facilities per RA 4.3a2</i> )	3,545,690
LESS 2019 REVENUE BOND DEBT SERVICE (NMWD PAID CASH)	677,117
<b>NMWD REVENUE REQUIREMENT FOR COMMON FACILITIES DEBT SERVICE (Remaining Facilities per RA 4.3a2)</b>	<b>2,868,574</b>
N. MARIN'S SHARE (REV. REQMT. FOR COMMON FAC. DEBT SERVICE X (11.2/90.4))	355,399
<b>ESTIMATED WATER DELIVERIES TO NORTH MARIN (IN A.F.)</b>	<b>5,250</b>
<b>NORTH MARIN REVENUE BONDS CHARGE</b>	<b>87.69</b>
REVENUE REQUIREMENT FOR COMMON FACILITIES DEBT SERVICE ( <i>Additional Facilities per RA 4.3b9</i> )	-
N. MARIN'S SHARE (REV. REQMT. FOR COMMON FAC. DEBT SERVICE X (19.9/146.2))	-
<b>ESTIMATED WATER DELIVERIES TO NORTH MARIN (IN A.F.)</b>	<b>5,250</b>
<b>NORTH MARIN REVENUE BONDS CHARGE</b>	<b>-</b>

<u>Common Facilities</u>		<u>NMWD Cash for 2019 Common Bonds</u>	
NMWD Debt Service RA 4.3a2 ( <i>remaining facilities</i> )	2,868,574	Total Revenue Required	\$2,868,574
N. Marin's Share (11.2/90.4)	355,399	Debt service - Additional Facilities	
Estimated Water Deliveries to N. Marin	5,250	Revenue base for NMWD	\$2,868,574
Applicable portion of the N. Marin R. Bonds Charge	\$67.69		

2015A New Money P&I Begins 2020

Debt Service RA 4.3b9 ( <i>additional facilities</i> )	0
N. Marin's Share (19.9/146.2)	-
Estimated Water Deliveries to N. Marin	5,250
Applicable portion of the N. Marin R. Bonds Charge	\$ -
Total NMWD Share	355,399
NMWD Total Bonds Charge	\$67.69

**FY 2020-21 BUDGET**  
**Water Transmission System - Fund Balances and Operating Transfers**

Fund	Index	OT Out (57012)	To	OT In (47102)	Fund Bal. (Stmnt.)	Fund Bal. (Cash)	Diff.
Santa Rosa Aq. Capital Fund	44230	0		546,474	365,317	365,316	(0)
Petaluma Aq. Capital Fund	44235	0		332,486	6,546,001	6,546,001	0
Sonoma Aq. Capital Fund	44240	0		622,845	30,357	30,357	(0)
Sonoma Rev Bond 2012 Fund	44285	0	Sonoma AQ	255,705	223,511	223,511	0
Sonoma Rev Bond 2015 Fund	44305	0	Sonoma AQ	38,073	59,720	59,720	0
Sonoma Rev Bond 2019 Fund	44315	500,000	Sonoma AQ	240,528	229,820	229,820	0
Storage Rev Bond 2012 Fund	44280	80,000	Storage Facilities	310,609	98,725	98,725	0
Storage Rev Bond 2015 Fund	44290	70,000	Storage Facilities	486,527	99,967	99,967	(0)
Common Rev Bond 2012 Fund	44275	60,000	Common Facilities	435,105	33,940	33,940	0
Common Rev Bond 2015 Fund	44295	120,000	Common Facilities	1,237,202	83,018	83,018	(0)
Common Rev Bond 2019 Fund	44310	0	Common Facilities	677,117	295,874	295,874	0
State Loan Debt Service	44265	150,000	Common Facilities	1,196,267	153,040	153,039	(0)
State Loan Reserve	44270	0		0	3,900	3,900	0
Capital Lease Financing		0		0	0	0	0
Agency Fund (Discretionary)	44205	231,701	Common Facilities	0	8,429,304	8,429,304	0
Agency Fund (Charges)	44205	12,958,957		0			0
Pipeline Facilities	44255			0	0	0	0
Storage Facilities	44250			150,000	8,042	8,042	0
Common Facilities	44260			561,701	402,812	402,812	(0)
North Marin	44300	0		0	17,305	17,305	0
Water Management Planning	44210			40,000	93,386	93,386	0
Watershed Planning/Restoration	44215			5,128,067	2,252,540	2,252,540	0
Recycled Water & Local Supply	44220			41,000	307,496	307,496	0
Water Conservation	44225			1,870,952	997,649	997,649	(0)
<b>Total</b>		<b>14,170,658</b>		<b>14,170,658</b>	<b>20,731,724</b>	<b>20,731,723</b>	<b>(1)</b>

Common Facilities OT - in 47101 From

Water Transmission (discretionary)	231,701
Water Transmission (Charges)	-
North Marin	-
2012 Bond Fund	60,000
2015 Bond Fund	120,000
2019 Bond Fund	-
State Loan Debt Service	150,000
	<u>561,701</u>

O&M Rate Computation  
Revenue Requirement - Transfers Out:

12,958,957

Agency Fund (Charges) OT - Out To:

<u>AQ Capital Funds</u>	
Santa Rosa Aq. Capital Fund	546,474
Petaluma Aq. Capital Fund	332,486
Sonoma Aq. Capital Fund	122,845
	<u>1,001,805</u>

Agency Fund (Charges) OT - Out To:  
Summary

AQ Capital Funds	1,001,805
Debt Service Funds	4,877,133
WT Subfunds	7,080,019
	<u>12,958,957</u>

Debt Service Funds

Sonoma Rev Bond 2012 Fund	255,705
Sonoma Rev Bond 2015 Fund	38,073
Sonoma Rev Bond 2019 Fund	240,528
Storage Rev Bond 2012 Fund	310,609
Storage Rev Bond 2015 Fund	486,527
Common Rev Bond 2012 Fund	435,105
Common Rev Bond 2015 Fund	1,237,202
Common Rev Bond 2019 Fund	677,117
State Loan Debt Service	1,196,267
State Loan Reserve	0
Capital Lease Financing	0
	<u>4,877,133</u>

Capital Funds and North Marin 231,701

Total 13,190,658

Capital Funds and North Marin

Pipeline Facilities	0
Storage Facilities	0
Common Facilities	231,701
North Marin	0
	<u>231,701</u>

WT Subfunds

Water Management Planning	40,000
Watershed Planning/Restoration	5,128,067
Recycled Water & Local Supply	41,000
Water Conservation	1,870,952
	<u>7,080,019</u>

Total 13,190,658

WATER TRANSMISSION SYSTEM  
WATER CHARGES PER ACRE FOOT

FISCAL YEAR	SANTA ROSA AQUEDUCT	% INCR. (DECR.)	PETALUMA AQUEDUCT	% INCR. (DECR.)	SONOMA AQUEDUCT	% INCR. (DECR.)	NMWD	% INCR. (DECR.)
2020 - 2021								
2019 - 2020	\$ 918.30	4.60%	\$ 918.30	4.60%	\$ 1,100.37	9.92%	\$ 937.34	4.83%
2018 - 2019	\$ 877.88	3.67%	\$ 877.88	3.67%	\$ 1,001.06	5.98%	\$ 894.17	-0.89%
2017 - 2018	\$ 846.78	4.98%	\$ 846.78	4.98%	\$ 944.56	5.58%	\$ 886.28	6.78%
2016 - 2017	\$ 806.59	5.98%	\$ 806.59	5.98%	\$ 894.62	6.94%	\$ 829.97	6.62%
2015 - 2016	\$ 761.05	4.16%	\$ 761.05	4.16%	\$ 836.55	5.46%	\$ 778.46	4.94%
2014 - 2015	\$ 730.68	3.60%	\$ 730.68	3.60%	\$ 793.24	3.19%	\$ 741.78	3.42%
2013 - 2014	\$ 705.30	4.95%	\$ 705.30	4.95%	\$ 768.75	3.84%	\$ 717.27	-0.10%
2012 - 2013	\$ 672.03	5.98%	\$ 672.03	5.98%	\$ 740.34	5.26%	\$ 717.97	3.99%
2011 - 2012	\$ 634.11	5.00%	\$ 634.11	5.00%	\$ 703.33	4.28%	\$ 690.43	4.94%
2010 - 2011	\$ 603.92	6.93%	\$ 603.92	6.93%	\$ 674.47	8.42%	\$ 657.91	7.52%
2009 - 2010	\$ 564.78	19.88%	\$ 564.78	10.50%	\$ 622.11	27.95%	\$ 611.90	24.72%
2008 - 2009	\$ 471.13	6.66%	\$ 511.13	10.71%	\$ 486.22	7.22%	\$ 490.61	5.29%
2007 - 2008	\$ 441.70	2.41%	\$ 461.70	2.31%	\$ 453.49	2.46%	\$ 465.95	3.52%
2006 - 2007	\$ 431.29	4.51%	\$ 451.29	4.30%	\$ 442.60	4.26%	\$ 450.10	1.94%
2005 - 2006	\$ 412.68	2.53%	\$ 432.68	2.41%	\$ 424.53	2.44%	\$ 441.54	2.62%
2004 - 2005	\$ 402.51	2.19%	\$ 422.51	2.08%	\$ 414.42	1.59%	\$ 430.25	3.53%
2003 - 2004	\$ 393.89	1.65%	\$ 413.89	4.02%	\$ 407.95	5.30%	\$ 415.57	8.04%
2002 - 2003	\$ 387.49	1.10%	\$ 397.90	3.61%	\$ 387.43	3.76%	\$ 384.66	6.51%
2001 - 2002	\$ 383.29	15.88%	\$ 384.02	15.80%	\$ 373.38	16.41%	\$ 361.14	



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## MEMORANDUM

To: Board of Directors  
From: Drew McIntyre, General Manager/Acting Chief Engineer  
Subject: Brenneis/Furth (APN 114-120-58) – New Easement and Quitclaim

Date: March 13, 2020

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**RECOMMENDED ACTION:** That the Board: (1) approve authorization of payment for new utility easement and  
(2) approve quitclaim

**FINANCIAL IMPACT:** \$4,000 for new utility easement (to be paid from FY20 PRE Tank 4A CIP Budget)

New Utility Easement

As part of the District's PRE Tank 4A construction project, a new ~11-foot wide by ~26-long utility easement is required along the Brenneis/Furth (aka property owners) property as shown in Attachment 1. This 280 sq. ft. Utility Easement is needed to relocate various electrical/instrumentation conduits out of the limits of construction for the new 125,000 gallon concrete water storage tank. The agreed compensation value for this easement is \$4,000, which is less than the cost to prepare an appraisal.

New Access Easement

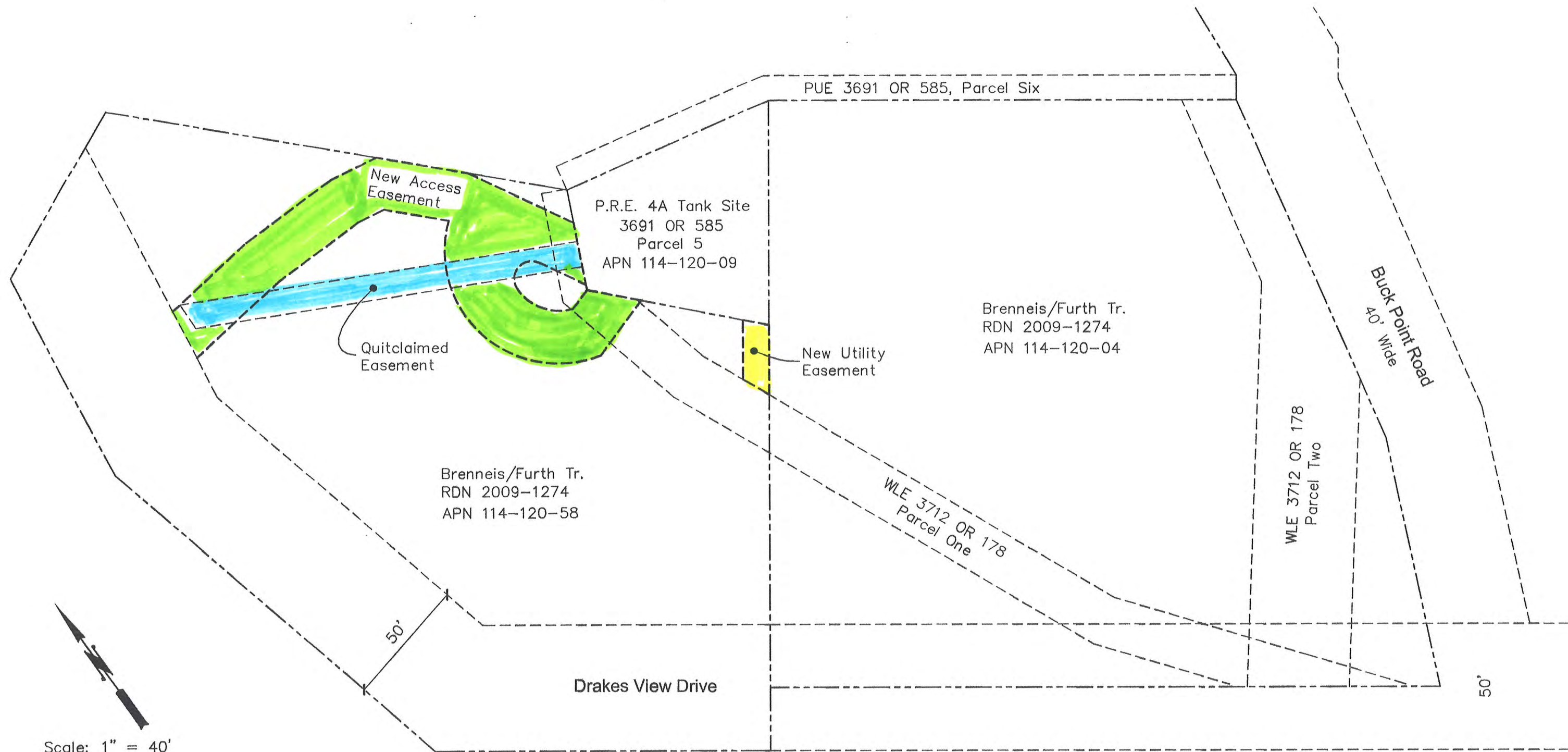
As part of the District's PRE Tank 4A construction project, the property owners have also agreed to provide a new, permanent ~38-foot wide by ~270-long Access Easement along their existing unpaved driveway to provide improved access to the PRE Tank 4A site in connection with the construction, maintenance, replacement and operation of the District's water tank. This new Access Easement alignment is also shown in Attachment 1. There is no financial compensation for this easement, however, the District will install a Class 2 Aggregate Base (AB) gravel overlay along the roadway within this Access Easement alignment once construction is complete to address roadway damage caused during construction and provide an all-weather access road to the District tank site.

Quitclaim of Old Utility Easement

As part of the easement review for the PRE Tank 4A project, the District desires to remove an old 10-wide utility easement that has never been used and has no value based on the configuration of the existing tank and location of other existing pipeline and utility easements (also shown in Attachment 1). To remove this old easement, the District must record the Quitclaim Deed provided in Attachment 2.

RECOMMENDATION

- 1) Authorize the payment \$4,000 to compensate Brenneis/Furth for receipt of a fully executed 280 sq. ft utility easement.
- 2) Approve quitclaim for APN 114-120-58 and authorize the General Manager to execute said quitclaim.



Scale: 1" = 40'

### Abbreviations

APN	Assessor's Parcel No.
OR	Marin County Official Records
PUE	Public Utility Easement
RDN	Recorder's Document No.

### Legend

-----	Property Boundary
-----	Existing Easement
-----	New Easement

White & Prescott  
Engineering & Surveying  
1400 Grant Avenue  
Novato, CA 94945

LD2020\NMWD-PRE-4-2020\dwg\MAP.dwg

North Marin Water District  
Paradise Ranch Estates Tank 4A

## EASEMENT EXHIBIT

Recording Requested by and  
When Recorded Mail To

North Marin Water District  
P.O. Box 146  
Novato, CA 94948-0146

Record Without Fee Per G.C. 27383

J-2-6263-20

Space Above For Recorder's Use

APN 114-120-58

## QUITCLAIM DEED

FOR A VALUABLE CONSIDERATION,

North Marin Water District, a public corporation organized and existing under the County Water District Law of the State of California, hereby QUITCLAIMS to

Donald L. Brenneis and Wynne S. Furth, as Trustees of the Brenneis/Furth Family Revocable Trust U/D/T/ dated October 24, 2008

That certain 10 foot wide public utility easement conveyed to North Marin County Water District as PARCEL SEVEN by Individual Grant Deed recorded March 18, 1980 in Book 3691 of Official Records, at page 585, Marin County Records. This Quitclaimed Easement is shown on Exhibit A attached to and incorporated by reference to this deed.

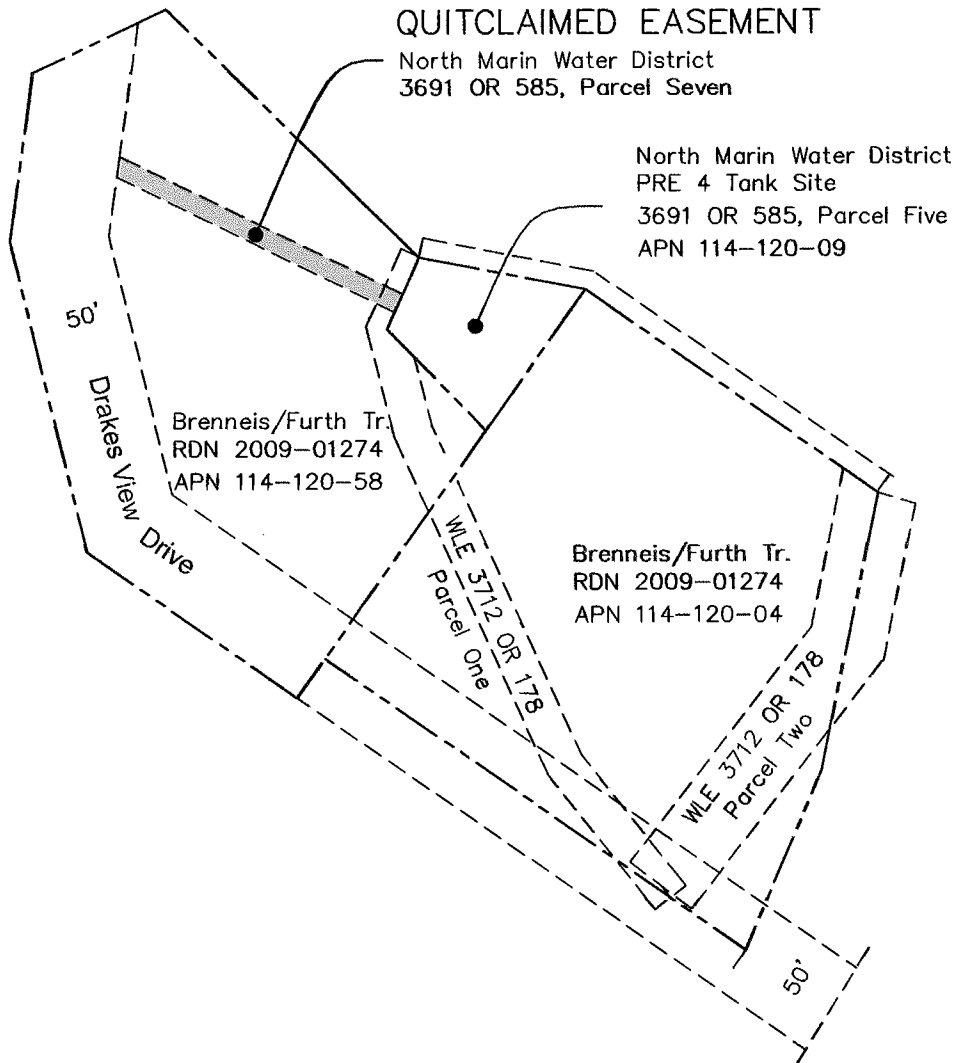
By \_\_\_\_\_

Date \_\_\_\_\_

Drew McIntyre  
General Manager  
North Marin Water district

NMWD-PRE-4-QUITCLAIM-.doc





Scale: 1" = 100'

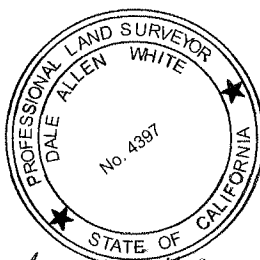
### Abbreviations

MCR Marin County Records  
OR Official Records  
PRE Paradise Ranch Estates  
WLE Water Line Easement

### Legend

————— Property Boundary  
----- Existing Easement  
----- Water Line Easement

White & Prescott  
Engineering & Surveying  
1400 Grant Avenue  
Novato, CA 94945



*Dale White*  
3-11-2020

North Marin Water District  
Paradise Ranch Estates Tank 4A  
QUITCLAIMED EASEMENT


EXHIBIT A

11

## MEMORANDUM

To: Board of Directors

March 13, 2020

From: Julie Blue, Auditor/Controller Subj: Revisions to *Employer Assisted Housing Program for Employees of North Marin Water District No. 42*

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**RECOMMENDED ACTION:** Approve Revisions to *Employer Assisted Housing Program for Employees of North Marin Water District Policy No. 42***FINANCIAL IMPACT:** No impact at this timeBackground

In 1992 the District adopted an Employer Assisted Housing Program (EAHP) Policy with the goal of increasing the number of employees available to respond rapidly to emergencies impacting the operations of the District. At that time only 16% of District employees lived within NMWD's Service Territory (12% in Novato), and 75% of employees lived outside of Marin County. Today, 33% of employees live within NMWD's Service Territory (all in Novato), and 55% live outside Marin County (25% in Petaluma).

The EAHP provides housing loans of up to \$300,000 to an employee of the District with a maximum term of 15 years. The employee is responsible to repay the loan sooner if they sell or move out of the house, upon refinancing, or upon termination of employment. The financial assistance provided to employees is intended to allow for quick response time by employees for emergency situations and to close the gap between the cost of housing in Novato and Petaluma. Over the years, the program has provided housing loans to 14 employees.

Policy Update

The updated policy (Attachment A) simplifies the calculation of interest owed to the District at the time loans are repaid. A strike-out version showing changes to the current policy is also attached (Attachment B). The current policy includes an interest payback calculation under two methods, an appreciation method and an interest foregone method. The proposed updated policy eliminates the appreciation method. The interest foregone method provides the District with interest income equivalent to the amount of interest it would have earned if the funds were not loaned out and were earning interest in the District's investment portfolio.

This change was recommended by our outside auditor's Fedak & Brown, LLP during the fiscal year 17/18 audit and agreed upon by management and legal counsel. This change simplifies the calculation and guarantees the District will receive interest for all loans provided under the program.

**RECOMMENDATION**

Approve Revisions to Policy No. 42 Employee Assisted Housing Program



**NORTH MARIN WATER DISTRICT**

**POLICY: EMPLOYER ASSISTED HOUSING PROGRAM FOR EMPLOYEES OF NORTH MARIN WATER DISTRICT**

**BOARD POLICY NUMBER: 42**

Original Date: 1992  
Last Revised: 03/17/2020

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1. Objective of Program. NMWD may make loans to full-time regular employees for the purpose of purchasing a home located within the District service territory that will enable the employee to respond rapidly to emergencies affecting the operation of the District.

2. Source of Funding. Loans granted under this program will be funded from the District's Liability Contingency Reserve Fund. The cumulative principal amount of all outstanding loans may not exceed One Million Five Hundred Thousand Dollars.

3. District Control of Assistance. Whether to provide financial assistance in any specific home purchase and the amount, terms and conditions of loans are within the discretion of the Board of Directors. Such assistance is voluntary on the part of the District, is not a matter of right of any employee and is at all times subject to the availability and allocation of District funds. If the District determines at any time that it is not beneficial to the District to continue this program, it may be terminated. In the event the program is revised or terminated, existing loans outstanding will remain in effect in accordance with the terms and conditions of the promissory note previously executed.

4. Loan Conditions.

A. Loans shall be made for the sole purpose of paying a part of the purchase price of the fee title to a dwelling with-in the District service territory. "Dwelling," means a single-family residence or condominium unit that shall be the principal residence of the employee.

B. For market rate housing, the loan shall be evidenced by the promissory note of the employee secured by a second deed of trust on the property. For below market rate "workforce" housing such as Meadow Park in Novato, the loan shall be evidenced by the promissory note of the employee secured by a deed of trust on the property that will be subordinate to the interests of the primary lender and of the Redevelopment Agency of the City of Novato or the City of Novato. The District's interest under the deed of trust shall be insured by a title company acceptable to the District at the expense of the employee.

C. The employee shall enter into an agreement with the District to participate when requested by the District in the District's standby duty, and when within ten miles of the District headquarters, carry a pager or cellular phone at all times and be available to respond to emergencies upon call.

5. Terms of Note, Market Rate Housing.

A. Amount. The principal amount of the loan shall be determined by the District and shall not exceed any of the following:

- (1) \$300,000;
- (2) 50% of the purchase price or appraised value of the property as the District shall elect, appraisals to be made at the employee's expense by an appraiser approved by the District;
- (3) The difference between the purchase price (or appraised value as the District shall elect) less the employee's down payment and the amount owing on the first deed of trust.

B. Interest. The interest owed on the note shall be the amount of interest revenue foregone by the District on the note amount over the period of the loan based on the District's investment portfolio yield as reported in the Auditor-Controller's Monthly Report of Investments. Said amount of interest revenue foregone shall be solely determined by the District.

C. Maturity. The principal amount of the note and interest thereon shall be due and payable in full upon the first of the following events to occur:

- (1) The sale or rental of the property secured thereby.
- (2) One hundred sixty (160) days after the employee ceases to be a full-time resident of the property.
- (3) One hundred sixty (160) days after receipt of notice of, and failure to cure, breach of any provisions of the promissory note.
- (4) One hundred sixty (160) days after the date of termination of the employee's full-time employment.
- (5) The employee, in the judgment of the District, fails to satisfactorily carry out the terms of the agreement noted in Section 4(c).
- (6) Refinancing of the first deed of trust with cash out.

(7) Fifteen years from the date of the note.

- D. Employee Down Payment. The employee shall make a minimum down payment based upon the purchase price of the property in accordance with the following schedule:

Home Purchase Price	Minimum Down Payment
< = \$600,000	5%
\$600,001 - \$700,000	6%
\$700,001 - \$800,000	7%
\$800,001 - \$900,000	8%
\$900,001 - \$1,000,000	9%
\$1,000,001 +	10%

- E. Sale or Refinancing. Upon sale or refinancing of the property the District shall be entitled to the return of its original loan amount plus interest calculated as follows:

The amount of interest revenue foregone by the District on the note amount over the period of the loan based on the District's investment portfolio yield as reported in the Auditor-Controller's Monthly Report of Investments. Said amount of interest revenue foregone shall be solely determined by the District.

6. Terms of Note, Below Market Rate Workforce Housing

- A. Amount. The principal amount of the loan shall be determined by the District and shall not exceed any of the following:

- (1) \$150,000
- (2) 40% of the purchase price of the property;

- B. Interest. Upon sale or refinancing of the property the District shall be entitled to the return of its original loan amount plus interest calculated as follows: The amount of interest revenue foregone by the District on the note amount over the period of the loan based on the District's investment portfolio yield as reported in the Auditor-Controller's Monthly Report of Investments. Said amount of interest revenue foregone shall be solely determined by the District.

C. Maturity. The principal amount of the note and interest thereon shall be due and payable in full upon the first of the following events to occur:

- (1) The sale or rental of the property secured thereby.
- (2) Thirty (30) days after the employee ceases to be a full-time resident of the property.
- (3) Thirty (30) days after receipt of notice of, and failure to cure, breach of any provisions of the promissory note.
- (4) Thirty (30) days after the date of termination of the employee's full-time employment.
- (5) The employee, in the judgment of the District, fails to satisfactorily carry out the terms of the agreement noted in Section 4(c).
- (6) Refinancing of the first or second deed of trust with cash out.
- (7) Fifteen years from the date of the note.

7. Application for Loans. Employees and prospective employees may request loans for housing assistance. Loans may be made to the applicants who the District determines to be the most valuable for meeting typical emergencies experienced by the District in operating its water and wastewater systems. In making final selections for employee housing loans it shall be the goal of ultimately achieving assemblage of the ideal integrated emergency response force comprised of the skills and/or positions shown in Table 1. It is planned that an initial goal be achieved within five years of the date this revised program is first adopted and the ultimate goal within fifteen to twenty years.

8. Capital Improvements by Employee. If the employee wishes to make capital improvements to the property costing in excess of five thousand dollars, written approval by the District's General Manager must be obtained in advance. Capital improvements for Below Market Rate Workforce Housing at Meadow Park must be pre-approved by the Redevelopment Agency of the City of Novato or the City of Novato. If the District approves the capital improvement, the amount expended by the employee, evidenced by receipts, will be reimbursed to the employee at the time the note is repaid in full to the District.

**NORTH MARIN WATER DISTRICT****POLICY: EMPLOYER ASSISTED HOUSING PROGRAM FOR EMPLOYEES OF NORTH MARIN WATER DISTRICT****BOARD POLICY NUMBER: 42**

Original Date: 1992

Last Revised: 03/17/2020~~08/02/16~~

1. Objective of Program. NMWD may make loans to full-time regular employees for the purpose of purchasing ~~of~~ a home located within the District service territory that will enable the employee to respond rapidly to emergencies affecting the operation of the District.

2. Source of Funding. Loans granted under this program will be funded from the District's Liability Contingency Reserve Fund. The cumulative principal amount of all outstanding loans may not exceed One Million Five Hundred Thousand Dollars.

3. District Control of Assistance. Whether to provide financial assistance in any specific home purchase and the amount, terms and conditions of loans are within the discretion of the Board of Directors. Such assistance is voluntary on the part of the District, is not a matter of right of any employee and is at all times subject to the availability and allocation of District funds. If the District determines at any time that it is not beneficial to the District to continue this program, it may be terminated. In the event the program is revised or terminated, existing loans outstanding will remain in effect in accordance with the terms and conditions of the promissory note previously executed.

4. Loan Conditions.

A. Loans shall be made for the sole purpose of paying a part of the purchase price of the fee title to a dwelling with-in the District service territory. "Dwelling," means a single-family residence or condominium unit that shall be the principal residence of the employee.

B. For market rate housing, the loan shall be evidenced by the promissory note of the employee secured by a second deed of trust on the property. For below market rate "workforce" housing such as Meadow Park in Novato, the loan shall be evidenced by the promissory note of the employee secured by a deed of trust on the property that will be subordinate to the interests of the primary lender and of the Redevelopment Agency of the City of Novato or the City of Novato. The District's interest under the deed of trust shall be insured by a title company acceptable to the District at the expense of the employee.

C. The employee shall enter into an agreement with the District to participate when requested by the District in the District's standby duty, and when within ten miles of the District headquarters, carry a pager or cellular phone at all times and be available to respond to emergencies upon call.

5. Terms of Note, Market Rate Housing.

A. Amount. The principal amount of the loan shall be determined by the District and shall not exceed any of the following:

- (1) \$300,000;
- (2) 50% of the purchase price or appraised value of the property as the District shall elect, appraisals to be made at the employee's expense by an appraiser approved by the District;
- (3) The difference between the purchase price (or appraised value as the District shall elect) less the employee's down payment and the amount owing on the first deed of trust.

B. Interest. ~~The interest owed on the note may be calculated using either of the two following methods at the employee's discretion:~~

~~(1) — The interest owed on the note shall be contingent upon and directly proportional to the appreciation in value occurring on the property. In the event there is no appreciation, no interest will be due. Appreciation is defined as the difference between the purchase price and the sale price (net of broker's commission and County transfer tax, if any) of the property. The District may, at its option, use the appraised value of the property to calculate the appreciation. Said appraisal shall be made at the employee's expense by an appraiser approved by the District.~~

~~(2)~~(1) The interest owed on the note shall be the amount of interest revenue foregone by the District on the note amount over the period of the loan based on the District's investment portfolio yield as reported in the Auditor-Controller's Monthly Report of Investments. Said amount of interest revenue foregone shall be solely determined by the District.

C. Maturity. The principal amount of the note and interest thereon shall be due and payable in full upon the first of the following events to occur:

- (1) The sale or rental of the property secured thereby.



- (2) One hundred sixty (160) days after the employee ceases to be a full-time resident of the property.
- (3) One hundred sixty (160) days after receipt of notice of, and failure to cure, breach of any provisions of the promissory note.
- (4) One hundred sixty (160) days after the date of termination of the employee's full-time employment.
- (5) The employee, in the judgment of the District, fails to satisfactorily carry out the terms of the agreement noted in Section 4(c).
- (6) Refinancing of the first deed of trust with cash out.
- (7) Fifteen years from the date of the note.

D. Employee Down Payment. The employee shall make a minimum down payment based upon the purchase price of the property in accordance with the following schedule:

Home Purchase Price	Minimum Down Payment
< = \$600,000	5%
\$600,001 - \$700,000	6%
\$700,001 - \$800,000	7%
\$800,001 - \$900,000	8%
\$900,001 - \$1,000,000	9%
\$1,000,001 +	10%

E. Sale or Refinancing. Upon sale or refinancing of the property the District shall be entitled to the return of its original loan amount plus interest calculated as follows:  
~~using either of the two following methods at the employee's discretion:~~

~~———— (1) — Fifty percent of the appreciation, less one percent of the appreciation for each percent that the employee's down payment exceeds five percent. In no event shall the District be entitled to less than 25% of the appreciation.~~

~~———— (2) — The amount of interest revenue foregone by the District on the note amount over the period of the loan based on the District's investment portfolio yield as reported in the Auditor-Controller's~~

Monthly Report of Investments. Said amount of interest revenue foregone shall be solely determined by the District.

6. Terms of Note, Below Market Rate Workforce Housing

A. Amount. The principal amount of the loan shall be determined by the District and shall not exceed any of the following:

- (1) \$150,000
- (2) 40% of the purchase price of the property;

B. Interest. Upon sale or refinancing of the property the District shall be entitled to the return of its original loan amount plus interest calculated as follows: The amount of interest revenue foregone by the District on the note amount over the period of the loan based on the District's investment portfolio yield as reported in the Auditor-Controller's Monthly Report of Investments. Said amount of interest revenue foregone shall be solely determined by the District. ~~The interest owed on the note shall be contingent upon and directly proportional to the appreciation in value occurring on the property. In the event there is no appreciation, no interest will be due. Appreciation is defined as the difference between the purchase price and the sale price (net of broker's commission and County transfer tax, if any) of the property. The District may, at its option, use the value of the property at maturity for Below Market Rate Workforce Housing set by the Redevelopment Agency of the City of Novato, the City of Novato, or County of Marin to calculate said appreciation.~~

~~(1) — The obligation to pay contingent deferred interest is subject to a superior right of the employee, upon termination of the loan, to receive repayment of money paid by the employee for purchase of the security property, including down payment, installment payment of mortgage principal, escrow fees, transfer taxes, recording fees, brokerage commissions, and similar costs of acquisition actually paid by the employee, and money paid by the employee for capital improvements to the security property, plus not less than the legal rate of interest on those cash payments.~~

~~———— (2) — The amount of contingent deferred interest shall not exceed that percentage of the appreciation in appraised fair market value of the security property that equals the District's proportionate share of the total initial equity in the security property. The amount of the total~~



~~initial equity and of the District's share of the initial equity shall be agreed upon by the employee and the District at the time of executing the shared appreciation loan, and shall include the District's cash investment, the amount of fees waived by the District (if any), and the value of in-kind contributions made by or on behalf of the District (if any). Funds borrowed by the employee, the repayment of which is secured by the security property, shall not be included in the calculation of total initial equity of the employee.~~

C. Maturity. The principal amount of the note and interest thereon shall be due and payable in full upon the first of the following events to occur:

- (1) The sale or rental of the property secured thereby.
- (2) Thirty (30) days after the employee ceases to be a full-time resident of the property.
- (3) Thirty (30) days after receipt of notice of, and failure to cure, breach of any provisions of the promissory note.
- (4) Thirty (30) days after the date of termination of the employee's full-time employment.
- (5) The employee, in the judgment of the District, fails to satisfactorily carry out the terms of the agreement noted in Section 4(c).
- (6) Refinancing of the first or second deed of trust with cash out.
- (7) Fifteen years from the date of the note.

~~D. Appreciation Distribution. Upon sale or refinancing of the property, due to the subordinate position of the District loan, the District's right to share in the appreciation is subject to the superior right of the superior public agency lender (i.e., the Redevelopment Agency of the City of Novato or the City of Novato in the case of Meadow Park) and the borrower, as defined in the loan documents for the said superior public agency loan. Subject to these limitations, the District shall be entitled to the return of its original loan amount plus a percentage of the appreciation, proportionate to the share of the original loan amount pursuant to 6. B. above to the original purchase price of the property.~~

7. Application for Loans. Employees and prospective employees may request loans for housing assistance. Loans may be made to the applicants who the District determines to be

the most valuable for meeting typical emergencies experienced by the District in operating its water and wastewater systems. In making final selections for employee housing loans it shall be the goal of ultimately achieving assemblage of the ideal integrated emergency response force comprised of the skills and/or positions shown in Table 1. It is planned that an initial goal be achieved within five years of the date this revised program is first adopted and the ultimate goal within fifteen to twenty years.

8. Capital Improvements by Employee. If the employee wishes to make capital improvements to the property costing in excess of five thousand dollars, written approval by the District's General Manager must be obtained in advance. Capital improvements for Below Market Rate Workforce Housing at Meadow Park must be pre-approved by the Redevelopment Agency of the City of Novato or the City of Novato. If the District approves the capital improvement, the amount expended by the employee, evidenced by receipts, will be reimbursed to the employee at the time the note is repaid in full to the District. ~~Said reimbursement amount shall be deducted from the appreciation amount prior to the distribution of appreciation as specified in Sections 5.E and 6.D.~~

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## MEMORANDUM

To: Board of Directors

March 13, 2020

From: Ryan Grisso, Water Conservation Coordinator *RG*

Subject: FY 19/20 Mid-Year Progress Report – Water Conservation

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**RECOMMENDED ACTION:** Information**FINANCIAL IMPACT:** NoneWater Conservation

This memo provides an update on water conservation and public outreach activities implemented during the first half of Fiscal Year 2019/2020 (FY 20). Water Conservation participation numbers for the first quarter of the current and previous two fiscal years are summarized in Table 1 below.

**Table 1: Water Conservation Program Participation (July through December)**

Program	FY18	FY19	FY20
Water Smart Home Surveys	166	165	83
Water Smart Commercial Surveys	3	1	1
Toilet Replacements (Residential)	73	68	80
Toilet Replacements (Commercial)	0	1	0
Retrofit on Resale (Dwellings Certified)	127	94	103
High Efficiency Washing Machine Rebates	13	7	6
Cash for Grass Rebates	11	10	8 <sup>1</sup>
Water Smart Landscape Rebates	1	3	8
Smart Irrigation Controller Rebates	12	7	8
New Development Sign-offs (Residential Units)	62	9	11
New Development Sign-offs (Commercial Units)	9	10	12
Large Landscape Audits (Number of accounts)	2	3	1

<sup>1</sup> Cash for Grass participants removed 7,135 square feet in FY20 compared to 14,596 square feet in FY19

**Water Conservation Programs**

Water Smart Home Survey (WSHS) Program: This program provides the customer with an in-depth analysis of both their indoor and outdoor water use with water efficient recommendations for customers to implement. The WSHS Program also provides staff with an opportunity to present applicable rebate programs for which the participating customer may be eligible. WSHS participa-

tion has declined with 83 WSHS's completed during the first half of FY 20, compared to 165 completed in FY19. The WSHA has historically remained fairly consistent, even during the drought recovery period, however, this fiscal year the participation has declined, mainly due to a staffing transition at Sonoma County Water Agency and the streamlining of the bill adjustment WSHS's during that period through the use of the Water Smart (AMI) Dashboard.

Water Conservation Fixture Distribution: Staff continues to distribute water conserving fixtures at the front counter of the District Administration Building, on service calls and WSHS, and at various public outreach events. Fixtures include 1.5 gallon per minute (GPM) showerheads, 1.0 and 0.5 GPM sink aerators, hose nozzles (when available) and other related items. The District also offers commercial establishments installation of 0.5 GPM sink aerators on all hand-washing sinks when conducting a Water Smart Commercial Survey or upon request.

Toilet (HET) Replacement Program: The District provides \$100 rebates to residential and commercial customers for purchase and installation of qualified HETs (1.28 gallons per flush). During the first half of FY 20, the District rebated 76 residential HETs. The Ultra High Efficiency Toilet (UHET) Rebate program, which offers a \$150 for toilets that flush less than 1.1 gallons per flush, was set up to help transform the market to the next level of toilet water use efficiency. Four UHETs rebated were rebated during the first half of the fiscal year.

Retrofit on Resale: The District currently requires toilets, showerheads, and bathroom sinks to be retrofitted to meet current water conservation standards by the seller before the close of escrow of any property sold in the District service area. HET rebates are available and fixtures (showerheads and sink aerators) are free to customers to help make it as easy as possible to meet the requirement. In the first half of FY 20, the District received water conservation certificates for 103 dwellings.

High Efficiency Clothes Washer Rebate Program: The District currently offers rebates for qualified high efficiency clothes washing machines through the Sonoma-Marín High Efficiency Clothes Washer Program (with rebates paid directly by the District). During the first half of FY 20 the District rebated six clothes washing machines through the program. These numbers are significantly down from previous years due to the change to Energy Star "Most Efficient" rating which has a higher water efficient factor/qualification for rebate eligibility. Additionally, staff learned that the absence of the energy rebate has caused some confusion amongst purchasing customers as to whether or not there is in fact a water utility rebate. Staff will be conducting store visits when possible to educate salespeople on the program.

Cash for Grass Rebate Program: The District has rebated customers for removing irrigated turf and replacing with low water use landscaping since 1989, and has the longest active Cash for Grass Program in existence. Compared to FY19, turf removal decreased in FY20 to eight partici-

pants removing 7,135 square feet of lawn. This is a trend throughout the State with other utilities experiencing similar decline in lawn removal participation (along with other water conservation programs) during the post-drought period and also affected by market penetration.

Water Smart Landscape Rebate Program: The District currently rebates a percentage of equipment costs (up to \$100) for landscape efficiency upgrade projects such as spray to drip irrigation conversions, and high volume spray head to low volume multi-stream rotating spray head conversions. In the first half of FY 20 the District rebated eight landscape efficiency upgrade projects.

Water Smart Irrigation Controller Rebate Program: Rebates are available for purchase, installation and activation of District approved Smart Irrigation Controllers (Smart Controllers) at a minimum level of \$100, or \$30 per active station, up to \$1,200. The District rebated eight controllers in the first half of FY 20. There has been an increase in the availability of reasonably priced mobile device-operated WiFi irrigation controllers, resulting in an increase in installations and participation over the last few years.

Large Landscape Water Conservation Program: The Large Landscape Water Conservation Program consists of the Large Landscape Audit Program, Water Smart Controller Rebate Program (previously covered in the Water Smart Irrigation Controller Rebate Program section) and the Large Landscape Water Smart Landscape Efficiency Rebate Program. All programs are aimed at assisting large landscape accounts (dedicated irrigation and large mixed use meters) to become more water use efficient in their landscape water management practices. One large landscape audit was performed in the first half of FY 20.

## **Public Outreach and Conservation Marketing**

In the first half of FY20, the District initiated the process of developing a new website and is in the beginning stages of implementing the communication actions as directed in the approved Communications Strategy and Plan for FY 2019/2020. To kick-off these actions, the Fall 2019 issue of the Novato "Water Line" (which was distributed in early November 2019) was completely redesigned by Kiosk and was the first action in the Communications Plan to be implemented. This issue informed customers on: water supply and conservation achievements, District preparation efforts for the Public Safety Power Shutoffs, AMI project status including information on how to register online, the Rate Study and highlighted some recent capital improvement projects. Near future actions will include (among other action items to be completed by the end of the fiscal year), redevelopment of the District "Brand", new photography of the Board (recently completed), refreshment and redesign of District communications materials, and increased frequency and quality of social media posts. The District currently maintains a Facebook, Nextdoor and Instagram page with regular updates on water use efficiency, construction projects and other appropriate District outreach material. During

the Fall power shutoff event, the District was able to communicate our efforts to provide uninterrupted water service to our customers through our social media platforms and received an excellent and favorable response from our customer base. Staff is also using the WaterSmart AMI dashboard and customer portal as a public outreach tool to help inform customers on water use patterns and leaks.

## **Budget**

Table 2 summarizes the mid-year expenditures for the last three fiscal years (July-December). Expenditures in FY20 remain consistent with FY19 and FY18.

**Table 2: Water Conservation and Public Outreach Expenditures (July-December)**

	FY 18	FY 19	FY 20
Total Budget	\$440,000	\$380,000	\$390,000
July-December Actual	\$140,896	\$157,800	\$152,439

## **Staffing**

Water Conservation is currently staffed by one full time Water Conservation Coordinator. The District has also partnered with Sonoma County Water Agency through a reimbursable funding agreement to help implement some of the District Water Conservation Programs including the WSHS program.

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## MEMORANDUM

To: Board of Directors

From: Drew McIntyre, General Manager / Acting Chief Engineer

Subject: FY19-20 Mid-Year Progress Report – Engineering Department

Date: March 13, 2020



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The purpose of this memo is to provide a mid-year status report to the Board on the District's performance in completing budgeted FY19-20 Capital Improvements Projects (CIP) with a primary emphasis on planned (i.e., baseline) versus actual performance. The following information supplements the progress report summary provided to the Board each month.

SUMMARY

Service Areas	Project Costs (\$)		% Complete		Earned Value (\$)	
	Budget (\$)	Forecast (\$)	Planned	Actual	Planned	Actual
Novato Water	4,468,000	2,546,910	42	35	1,651,500	682,930
Novato Recycled	120,000	22,700	25	19	10,000	10,625
West Marin	1,300,000	1,177,500	37	39	645,000	348,600
TOTAL	5,888,000	3,747,110	34	31	2,306,500	1,042,155

The table above summarizes the detailed tabulation of CIPs for both Novato and West Marin (including Oceana Marin) systems provided in Attachment A. The above tabulation shows that year-end Novato CIP expenditures are forecasted to be \$1,921,090 below and \$97,300 below the respective approved FY19-20 budgets for water and recycled water. The year-end forecast for all service areas combined above represents approximately 64% of combined budgets (versus a forecast of 65% at this time last year). For the Novato Water system, actual District performance in completing CIP projects (i.e., 35%) is below planned performance (i.e., 42%). Actual performance for the Novato Recycled Water system is below planned performance for project completion (i.e., 19% vs. 25%). With respect to West Marin (including Oceana Marin), year-end CIP expenditures of \$1,177,500 are forecast to be slightly below the approved FY19-20 budget value (versus a forecast of 40% at this time last year). Planned performance through mid-year for West Marin was projected to be 37% and actual completion performance is on track at 39%. Overall, for the Novato Water, Novato Recycled Water and West Marin water systems, combined actual performance is slightly above (i.e. 34%) planned performance (i.e. 31%).

Performance Status for Improvement Projects

As shown on the following table (Page 3), a total of 34 projects (versus 31 in FY18-19) were originally budgeted in FY19-20 for the Novato, West Marin and Oceana Marin service areas. Six new projects have been added, four have been carried over, and none have been deleted/deferred, resulting in a new total of 44 projects. Of the 44 Capital Improvement Projects budgeted, 24 (versus 22 in FY18-19) are under the lead responsibility of the Engineering Department for completion (18 in

Novato, 6 in West Marin and 0 in Oceana Marin). The remaining 20 (versus 9 in FY18-19) CIP projects are under the responsibility of the other departments (i.e., 14 – Operations, 1 – Maintenance and 5 – Admin) (Refer to the tabulation in Attachment A for a complete line item listing).

#### Novato Service Area Project Costs Variances

As shown in Attachment A, all of the FY19-20 Novato CIPs are currently projected to be completed at or below original budget with the exception of 3.c.1 – Dam Concrete Apron Repair.

Three new projects have been added: Grant Ave CI Main Replacement with PVC Main, Replace PB – Hatch Rd & Mill Rd, Quick Connects – Generator. Three projects have been carried over: PB Replacements – Lanham Village; Novato Fair Shopping Center Backflow; and AMI Retrofit. No projects have been deleted or deferred.

#### Novato Recycled Water Service Area Project Variances

One recycled water project was added: Recycled Water Retrofits – Taco Bell. No recycled water projects have been added or deferred/dropped during the second quarter.

#### West Marin Service Area (including Oceana Marin) Project Costs Variances

As shown in Attachment A, all of the FY19-20 West Marin CIPs expenditures are currently projected to be within the original budget with the exception of Oceana Marin Treatment Plant Rehab. Two projects have been added: Gallagher Ranch Streambank Stabilization and Olema Pump Station Pump Replacement. One project has been carried over: PB Replacements – Drakes View Dr. No projects have been deleted or deferred.

#### Engineering Department Labor Hours

The Engineering Department provides a multitude of functions supporting overall operation, maintenance and expansion of water facilities. The major work classifications are: (1) General Engineering, (2) Developer Projects and (3) District (i.e., CIP) Projects. Out of the approximately 14,900 engineering labor hours available annually (less Conservation), the FY19-20 labor budget for Developer Projects and District Projects is 1,540 (10% of total) and 3,293 (22% of total), respectively. A chart of actual hours expended versus budgeted hours for both Developer and District projects during FY19-20 is provided in Attachment B. At the end of the second quarter, actual engineering labor hours expended for Developer work was 55% (839 hours) versus 50% (770 hours) budgeted. With respect to District Projects, 1,062 engineering labor hours (32% of budget) have been expended on Capital Improvement Projects which is below the mid-year estimate of 1,647 hours budgeted for the six-month period.

FY 19-20  
 CAPITAL IMPROVEMENTS PROJECTS

PROJECTS BUDGETED	NOVATO SERVICE AREA	WEST MARIN/ OCEANA MARIN	TOTAL
Original Budget	25	9	34
Added	4	2	6
FY 18-19 Carryover	3	1	4
Deferred/Dropped	0	0	0
Adjusted Budget	32	12	44

**FY18-19 CARRYOVER**

Novato

PB Replacements – Lanham Village  
 Novato Fair Shopping Center Backflow  
 AMI Retrofit

**Date Brought to Board**

First Quarter Report  
 First Quarter Report  
 First Quarter Report

West Marin

PB Replacement – Drakes View Dr.

First Quarter Report

**DEFERRED/DROPPED**

Novato

None

West Marin

None

**PROJECTS ADDED**

Novato

Quick Connects – Generator  
 Recycled Water Retrofits – Taco Bell  
 PB Replacements – Hatch Rd & Mill Rd  
 Grant Ave CI Main Replacement w/PVC Main

First Quarter Report  
 First Quarter Report  
 Second Quarter Report  
 Second Quarter Report

West Marin

Olema Pump Station Pump Replacement  
 Lagunitas Creek Slope Stabilization

First Quarter Report  
 First Quarter Report

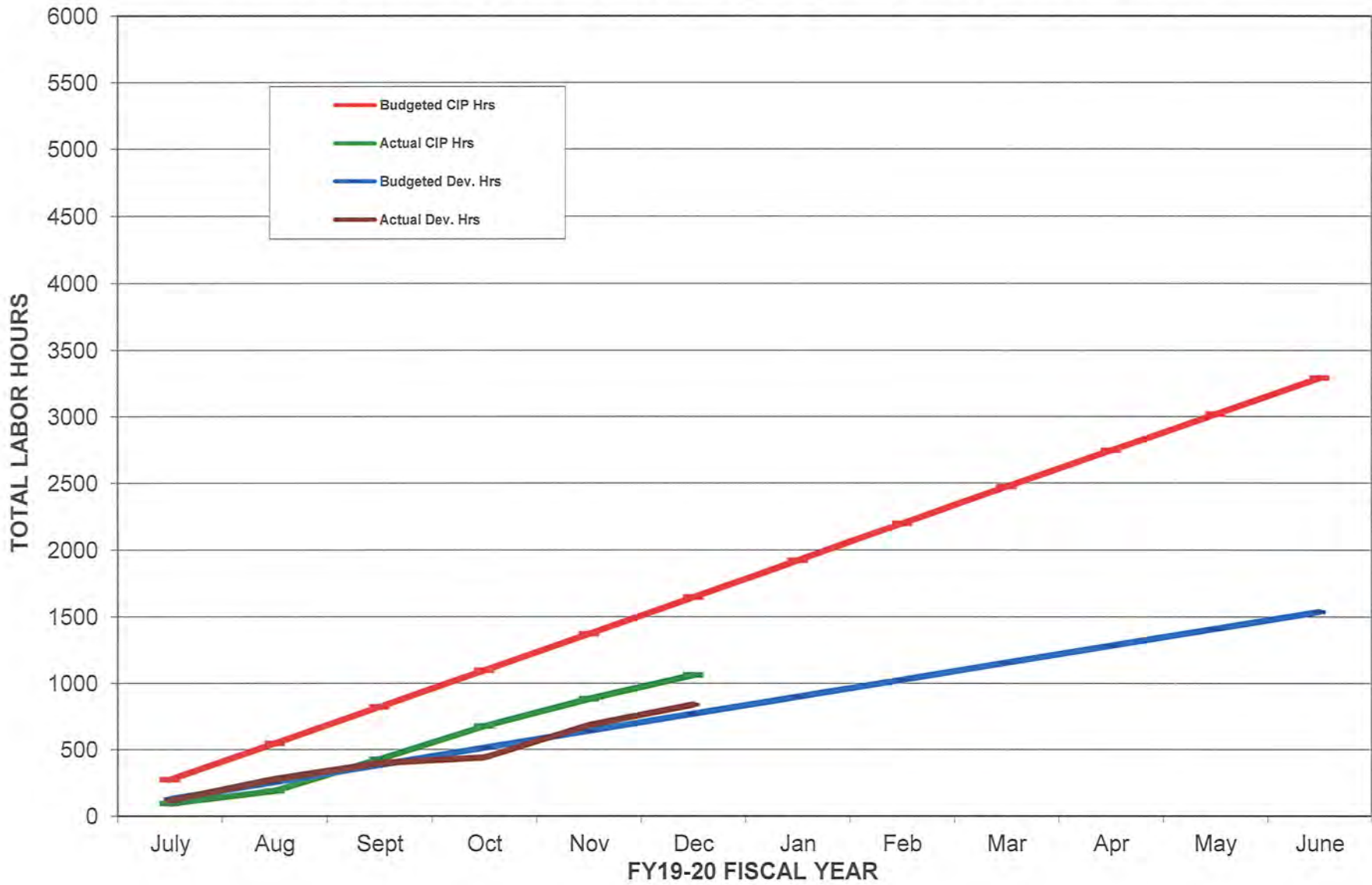
NOVATO SYSTEM CAPITAL IMPROVEMENT PROJECTS SUMMARY FY19-20										
AS OF DECEMBER 31, 2019										
STATUS	DEPT	ITEM #	PROJECT NO.	DESCRIPTION	PROJECT COSTS		% COMPLETE		EARNED VALUE	
					Budget	Forecast	Baseline	Actual	Planned	Actual
				1. PIPELINE REPLACEMENTS/ADDITIONS						
PC	Eng	1	1.a.1	Replace Plastic Thin Walled Pipe <4-Inches (Scown Ln)	\$150,000	\$150,000	50	5	\$75,000	\$7,500
	Eng	2	1.a.3	Grant Ave CI Main Replacement w/PVC Main	\$200,000	\$200,000	0	0	\$0	\$0
PC	Eng	3	1.b.1	San Mateo 24" Inlet/Outlet Pipe	\$50,000	\$50,000	50	80	\$25,000	\$40,000
				Replace PB in Sync with City Paving (30)	\$70,000	\$0				
	Eng	4	1.c.2	Replace PB - Hatch Rd & Mill Rd (13)	\$0	\$70,000	0	0	\$0	\$0
			1.c.3	Other PB Replacements (80)	\$80,000	\$0				
C	Eng	5	1.c.4	Replace PB - Lanham Village (32)	\$80,000	\$32,000	50	100	\$40,000	\$32,000
PC	Eng	6	1.c.5	Replace PB - MCCE (23)	\$80,000	\$80,000	10	10	\$8,000	\$8,000
			1.d.1	Other Relocations to Sync w/City & County CIP	\$70,000	\$0				
				SubTotal	\$780,000	\$582,000				
				2. SYSTEM IMPROVEMENTS						
PC	Eng	7	2.a	DCDA Repair/Replace	\$100,000	\$100,000	50	32	\$50,000	\$32,000
	Eng	8	2.b	Anode Installations	\$10,000	\$10,000	0	0	\$0	\$0
PC	Eng	9	2.c	Asset Mgmt Software Procure/Implement	\$163,000	\$163,000	50	27	\$81,500	\$44,010
	Ops	10	2.d	Facilities Security Enhancements	\$25,000	\$25,000	0	0	\$0	\$0
PC	Eng	11	2.e	Novato Fair Shopping Center Backflow	\$0	\$40,000	50	5	\$0	\$2,000
C	Admin	12	2.f	AMI Retrofit	\$0	\$70,000	100	100	\$0	\$70,000
				SubTotal	\$298,000	\$408,000				
				3. BUILDINGS, YARD, & S.T.P. IMPROVEMENTS						
PC	Admin	13	3.a.1	Electronic Document Management System	\$70,000	\$70,000	50	25	\$35,000	\$17,500
PC	Admin	14	3.a.2	Office/Yard Building Renovation	\$900,000	\$50,000	50	5	\$50,000	\$2,500
			3.b	Other Yard Improvements	\$30,000	\$0	0	0	\$30,000	\$0
	Eng	15	3.c.1	Dam Concrete Repair (Apron)	\$50,000	\$55,000	50	0	\$25,000	\$0
PC	Eng	16	3.c.2	Leveroni Creek Embankment Repair	\$191,000	\$191,000	50	16	\$95,500	\$30,560
PC	Ops	17	3.c.3	Other TP Improvements	\$114,000	\$39,000	0	0	\$39,000	\$0
	Ops	18	3.c.4	Efficiency Improvements	\$100,000	\$100,000	50	0	\$100,000	\$0
PC	Ops	19	3.c.5	STP Generator	\$400,000	\$200,000	50	45	\$200,000	\$90,000
	Ops	20	3.c.6	STP Chemical System Upgrades - Repl Ferric Tank	\$0	\$75,000	50	60	\$0	\$45,000
				SubTotal	\$1,855,000	\$780,000				
				4. STORAGE TANKS & PUMP STATIONS						
PC	Eng	21	4.a.1	Old Ranch Rd Tank No. 2	\$150,000	\$150,000	50	47	\$75,000	\$70,500
	Maint	22	4.b.1	Hydropneumatic Tank Repairs	\$30,000	\$30,000	50	0	\$15,000	\$0
PC	Eng	23	4.b.2	Cherry Hill Tank No. 2 Recoat & Rehabilitation	\$400,000	\$400,000	50	33	\$200,000	\$132,000
	Eng	24	4.c	Lynwood PS Motor Control Center	\$320,000	\$50,000	50	4	\$160,000	\$2,000
PC	Eng	25	4.d	Crest PS (design/const)/Reloc School Rd PS	\$635,000	\$100,000	50	9	\$317,500	\$9,000
C	Ops	26	4.f	Indian Hill PS - Bypass	\$0	\$6,200	50	100	\$10,000	\$7,140
C	Ops	27	4.g	Rockrose PS - Bypass	\$0	\$7,000	50	100	\$10,000	\$7,510
C	Ops	28	4.h	Diablo PS - Bypass	\$0	\$710	50	100	\$10,000	\$710
C	Ops	29	4.i	Quick Connects - Generators (16)	\$0	\$33,000	50	100	\$0	\$33,000
				SubTotal	\$1,535,000	\$776,910				
				Novato Water Total	4,468,000	\$2,546,910	42	35	\$1,651,500	\$682,930
				5. RECYCLED WATER FACILITY						
PC	Admin	30	5.a	NBWRA Grant Program Administration	\$20,000	\$20,000	50	50	\$10,000	\$10,000
			5.b	Other Recycled Water Expenditures	\$100,000	\$0				
	Eng	31	5.c-g	RW Central	\$0	\$0				
	Eng	32	5.h	So. Novato Dual Plumbed Shell Loop	\$0	\$200			\$0	\$0
PC	Eng	33	5.i	Recycled Water Retrofits - Taco Bell	\$0	\$2,500	50	25	\$0	\$625
				Novato Recycled Total	\$120,000	\$22,700	25	19	\$10,000	\$10,625
				Total Novato	\$4,588,000	\$2,569,610	33	27	\$1,661,500	\$693,555
1C - Completed				PROJECT FORECAST REVISED						
PC - Partially completed				Baseline projects with revised forecast budget increases (indicated by shaded box)						
				Baselined projects to be deferred (indicated in strikeout)						
				New projects added (indicated in bold)						
				Prior year projects carried over indicated in italics and brackets <>						

**WEST MARIN CAPITAL IMPROVEMENT PROJECT SUMMARY FY19-20**  
**AS OF DECEMBER 31, 2019**

STATUS	DEPT	ITEM #	PROJECT NO.	DESCRIPTION	PROJECT COSTS		% COMPLETE		EARNED VALUE	
					Budget	Forecast	Baseline	Actual	Planned	Actual
				<b>6. West Marin Water System</b>						
				<b>System Improvements</b>						
	Eng	34	6.a	Replace PRE Tank #4A <i>(MULTI-YEAR PROJECT)</i>	\$550,000	\$250,000	50	5	\$275,000	\$12,500
	Eng	35	6.b	New Gallagher Well #2	\$75,000	\$75,000	50	93	\$37,500	\$69,750
			6.c	PB Replace in Sync w/County Paving	\$50,000	\$0				
	Eng	36	6.d	WM Brominated - TTHM Reduction	\$300,000	\$50,000	50	77	\$150,000	\$38,500
	Eng	37	6.e	Lagunitas Creek Bridge Pipe Replacement (Caltrans)	\$200,000	\$50,000	50	1	\$100,000	\$500
	Eng	38	6.f	Olema Creek Bridge Pipe Replacement (County)	\$35,000	\$35,000	50	1	\$17,500	\$350
	Ops	39	6.g	Olema PS Wireless to Tank	\$20,000	\$20,000	50	0	\$10,000	\$0
C	Eng	40	6.k	<i>PB Repl: Drakes View Dr (22)</i>	\$0	\$70,000	50	100	\$0	\$70,000
	Admin	41	6.l	Gallagher Ranch Streambank Stabilization	\$0	\$550,000	25	25	\$0	\$137,500
C	Ops	42	6.m	Olema PS Pump Replacement	\$0	\$8,000	0	100	\$0	\$8,000
				SubTotal	\$1,230,000	\$1,108,000				
				<b>7. Oceana Marin Sewer System</b>						
	Ops	43	7.a	Infiltration Repair	\$40,000	\$40,000	50	5	\$40,000	\$2,000
C	Ops	44	7.b	Tahiti Way Lift Pump 1 Assembly	\$15,000	\$9,500	50	100	\$7,500	\$9,500
	Ops	45	7.c	OM Treatment Pond Rehab - 404 Grant- FEMA	\$15,000	\$20,000	50		\$7,500	\$0
				SubTotal	\$70,000	\$69,500				
				Total West Marin	\$1,300,000	\$1,177,500	37	39	\$645,000	\$348,600
				FY19-20 TOTAL	\$5,888,000	\$3,747,110	34	31	\$2,306,500	\$1,042,155
PROJECT FORECAST REVISED										
PC - Partially completed					Baseline projects with revised forecast budget increases (indicated by shaded box)					
					Baselined projects to be deferred (indicated in strikeout)					
					New projects added (indicated in bold)					
					Prior year projects carried over indicated in italics					



ENGR. DEPT DEVELOPER & DISTRICT CAPITAL IMPROVEMENT PROJECTS (CIPs)



**14**

## MEMORANDUM

To: Board of Directors

From: Drew McIntyre, General Manager/Acting Chief Engineer

Subject: Preparing for Dry Year Conditions  
t:\gmtbod misc 2020\preparing for 2020 dry year conditions 03\_13\_20.doc

March 13, 2020

**RECOMMENDED ACTION:** Information Only

**FINANCIAL IMPACT:** None at this time

To-date, this water year is looking very similar to 2018. Rainfall in Novato through Thursday, March 12<sup>th</sup> is 15.6 inches (vs 10.6 inches in 2018). On Lagunitas Creek rainfall at the Kent Lake rain gauge is 21.3 inches (vs ~18 inches in 2018). On the Russian River Sonoma County Water Agency (SCWA) will most likely declare dry year conditions on April 1. Absent significant rainfall through the end of March it's likely that dry year conditions will prevail on the Russian River and on Lagunitas Creek for the summer season. A table of dry year rainfall totals is attached for your information (Attachment 1).

### Lagunitas Creek

The above stated rainfall in the Lagunitas Creek watershed (at Kent Lake measured by Marin Municipal Water District) is nearly 7 inches below that necessary for normal year classification (i.e., 28 inches). Beginning April 1<sup>st</sup>, it's likely that a dry year will be designated on Lagunitas Creek which means that summer flows beginning July 1<sup>st</sup> will be set at 6 cubic feet per second (cfs). Since the State Water Resources Control Board (SWRCB) Order 95-17 was issued in 1995, a dry year condition on Lagunitas Creek has only happened once, in 2014. This could be the second year that NMWD may have to operate with flows in Lagunitas Creek at less than 8 cfs during the summer. Dry year conditions will trigger enactment of the District's Water Shortage Contingency Plan (Attachment 2) and adoption of a Water Conservation Ordinance. Pursuant to that plan, the District will be required to hold a Public Hearing similar to that in 2014 to consider a water shortage emergency. NMWD must also post stages of action in the Pt. Reyes Light and at the Pt. Reyes Station Post Office. From April 1<sup>st</sup> through June 30<sup>th</sup> of a dry year on Lagunitas Creek we are to request a 15% voluntary reduction in water use from a prior normal year, and from July 1<sup>st</sup> through November 1<sup>st</sup> during a dry year on Lagunitas Creek we are to request a 25% mandatory reduction in water use from a prior normal year. A draft West Marin emergency water conservation ordinance intended to achieve these reduction levels is also included for the Board's information (Attachment 3). Note that at this time a mandatory 25%



reduction would be for the West Marin service area as a whole and does not necessarily impose a 25% mandatory reduction for individual residential customers.

Our interconnection agreement with Marin Municipal enables NMWD to request up to 250-acre feet (AF) of water to be released from storage to Lagunitas Creek for rediversion by NMWD. For each AF of water released by Marin Municipal for this purpose we are to pay the cost of delivering Kent Lake water to Marin Municipal customers (approximately \$219 per acre/ft). The intertie agreement also requires that if Marin Municipal has requested voluntary or mandatory water use reductions of its customers, that NMWD would require its West Marin customers to reduce water use by a similar percentage. It is not likely Marin Municipal will request any water use reduction from their customers since their storage is over 90% (versus 75% in 2018) and the mandatory requirements of NMWD's water shortage contingency plan would likely trump any call for conservation in the Marin Municipal service territory. Over the next weeks, District staff will be monitoring rainfall data and preparing the West Marin WaterLine for distribution to keep customers informed.

On a related note, if Dry Conditions prevail in Lagunitas Creek, NMWD will cease surplus water deliveries via third party trucking from a hydrant in Point Reyes Station to the Nicasio community in accordance with our agreement with MMWD (provided as Attachment 4).

### **Stafford Lake and Novato**

The Russian River water supply system will most likely be designated as dry pursuant to SWRCB Decision 1610 on April 1. While possible, it is not likely that the classification will fall to critical dry. The dry year classification means that minimum flows in the Russian River can be reduced, thus preserving storage in both Lake Mendocino and Lake Sonoma for later release necessary for water supply or fishery requirements. Through March 9, 2020, Lake Mendocino still holds ~75,000 AF (vs 63,000 AF in 2018) and is 104% of the target water supply pool. Lake Sonoma holds ~222,000 AF (vs 206,000 AF in 2018) and is 90% of the water pool capacity. Accordingly, there is ample water supply to meet the regions needs this summer (Attachments 5 & 6).

Stafford Lake water storage is currently at 75% (vs 74% in 2018 at the end of the winter rains). While additional March rainfall could fill Stafford Lake, it's not likely this will occur. That said, at a reservoir capacity of 75%, operations staff still expects to meet our FY20 production goal of 650MG and will move into FY21 with a similar production goal of 650 MG.

# Dry Year Rainfall

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sep	Oct-Feb Total	Water Year Total
1976	3.16	0.35	0.68	0.26	2.29	1.06	2.06	0.00	0.00	0.00	0.54	0.28	6.74	10.68
1977	0.43	1.45	1.25	2.17	1.33	2.69	0.15	1.04	0.00	0.00	0.08	0.70	6.63	11.29
1991	0.28	0.46	1.63	0.51	4.22	9.39	0.87	0.13	0.31	0.00	0.28	0.00	7.10	18.08
2007	0.53	2.91	4.66	0.58	4.87	0.13	1.14	0.38	0.02	0.01	0.02	0.06	13.55	15.31
2012	2.04	2.53	0.10	3.40	2.08	5.69	0.47	0.00	0.00	0.00	0.01	0.00	10.15	16.32
2013	2.06	6.47	8.02	0.67	0.57	0.71	1.10	0.05	0.40	0.00	0.00	0.33	17.79	20.38
2014	0.00	1.21	0.92	0.03	7.84	2.56	1.00	0.01	0.00	0.00	0.00	0.30	10.00	13.87
2015	1.40	3.08	15.59	1.60	2.81	0.15	1.07	0.00	0.00	0.00	0.00	0.04	24.48	25.74
2018	0.29	3.40	0.04	6.20	0.61	5.51	3.13	0.06	0.00	0.00	0.01	0.00	10.54	19.25
2020	0.00	2.39	11.13	1.89	0.00								15.41	

T:\GM\BOD Misc 2020\[Dry Year Rainfall Data 03\_13\_20.xlsx]Sheet1

**NORTH MARIN WATER DISTRICT'S  
WATER SHORTAGE CONTINGENCY PLAN  
FOR WEST MARIN SERVICE AREA**

**April 29, 2016**

**NORTH MARIN WATER DISTRICT  
WATER SHORTAGE CONTINGENCY PLAN  
FOR WEST MARIN SERVICE AREA**

**April 2016**

Customer Notification

- I. January 1 water year classification “dry”
  - A. NMWD notifies customer by bill message.

“There are dry year conditions on Lagunitas Creek which may trigger implementation of water shortage contingency measures. Final determination will be made on April 1. Please use water wisely.”
  - B. NMWD issues press release in February and March informing that potential dry year conditions exist and promoting customer participation in NMWD water conservation programs.
- II. April 1 water year classification “normal”
  - A. Spring edition of NMWD West Marin “Water Line” promotes conservation measures.
- III. April 1 water year classification “dry”
  - A. Spring edition of NMWD West Marin “Water Line” informs customers of “Water Shortage Emergency,” public hearing and contingency measures. Water conservation programs and giveaways to be on display.
  - B. Stages of Action published as required in Point Reyes Light and posted at Point Reyes Station post office.

Specific Triggers

- Stage 1 Trigger:** When the total precipitation that occurs from October through April 1 of the following year is less than 28” as measured at the MMWD Kent precipitation gage and the period is April 1 through June 30, or when the NMWD Board of Directors determines that Dry Conditions prevail based on advice from NMWD staff or the State Water Resources Control Board.
- Stage 2 Trigger:** When the total precipitation that occurs from October through April 1 of the following year is less than 28” as measured at the MMWD Kent precipitation gage and the period is July 1 through November 1, or when the NMWD Board of Directors determines that Dry Conditions prevail based on advice from NMWD staff or the State Water Resources Control Board.
- Stage 3 Trigger:** When the total precipitation that occurs from October through April 1 of the following year is less than 28” as measured at the MMWD Kent precipitation gage and water demands in any preceding thirty-day period exceed an average of 433,000 gpd, or when the NMWD Board of Directors determines that Critical Dry Conditions prevail based on advice from NMWD staff or State Water Resources Control Board.

Consumption Limits (do not apply where private well or recycled water supply is used)

**Stage 1:** (Request for up to \_\_\_\_\_% voluntary reduction)

Residential: \_\_\_\_\_% voluntary reduction in water use from a prior year for similar billing period to be determined by the NMWD Board of Directors depending on circumstances in place at the time of enactment.

Commercial and Industrial: \_\_\_\_\_% voluntary reduction in water use from a prior year for similar billing period (exceptions may be granted in order to preserve jobs) to be determined by the NMWD Board of Directors depending on circumstances in place at time of enactment.

**Stage 2:** (Mandatory water use restrictions to enable reduction in water use up to \_\_\_\_\_%)

Residential: Water use for certain purposes are restricted as determined by the NMWD Board of Directors depending on circumstances in place at time of enactment.

Commercial and Industrial: Water use for certain purposes are restricted as determined by the NMWD Board of Directors depending on circumstances in place at time of enactment (exceptions may be granted in order to preserve jobs).

**Stage 3:** (Up to 50% mandatory reduction)

Residential: \_\_\_\_\_% mandatory reduction in water use from a prior year for similar billing period or maximum gallons per person per day allowance to be determined by the NMWD Board of Directors depending on circumstances in place at time of enactment.

Commercial and Industrial: \_\_\_\_\_% mandatory reduction in water use from a prior year for similar billing period to be determined by the NMWD Board of Directors depending on circumstances in place at time of enactment (exceptions may be granted to preserve jobs).

Stages of Action

**Stage 1** Voluntary - achieve \_\_\_\_\_% reduction<sup>1</sup> in water use by implementation of any of the following

- a. Encourage voluntary rationing;
- b. Pursue vigorous enforcement of water wasting regulations and provisions of District's Water Conservation Regulation 17 which requires water saving devices in new construction, prohibits installation of certain wasteful types of turf configurations, and encourages turf avoidance;
- c. Request customers to make conscious efforts to conserve water;
- d. Request other governmental agencies to demonstrate leadership and implement restrictive water use programs;
- e. Distribute water saving kits upon customer request, to assure availability to existing and new customers (Note: Similar kits were distributed system wide to all customers

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<sup>1</sup>Exact amount and District wide measurement of goal and method of achievement to be established by Board of Directors after examining projected supplies and after holding water shortage emergency public hearing.

during the 1976-77 California drought);

- f. Encourage private sector to use alternate water sources such as recycled water or use of private wells;
- g. Encourage the non-commercial washing of privately owned motor vehicles, trailers and boats only from a bucket and except that a hose equipped with a shut-off nozzle may be used for a quick rinse.;
- h. Encourage nighttime irrigation;
- i. Request restaurants, hotels, cafes, cafeterias, bars or other public places where food or drink are served/purchased to serve water only upon request;
- j. Implement detailed measures from other stages to meet desired objective;
- k. Any use of potable water from a fire hydrant except for fighting fire, human consumption, essential construction needs or use in connection with animals;
- l. Navy style showering will be promoted (e.g., turn on water to wet person or persons, turn off water, lather up, scrub, then turn on water for a quick rinse, then turn off shower with free push button showerhead control valves available to customers upon request);
- m. Customers will be urged not to regularly flush their toilets for disposal of urine only;
- n. Request hotel and motel operators to provide guests with the option of choosing not to have towels and linens laundered daily;
- o. Prohibit use of potable water for dust control at construction sites or other locations;

**Stage 2** Mandatory - achieve a \_\_\_\_% reduction<sup>1</sup> in water use by declaring a water shortage emergency and implementing Stage 1 (voluntary) and Stage 2 (mandatory) restrictions on water use for the following certain purposes

- a. Washing sidewalks, driveways, parking areas, tennis courts, patios or other exterior paved areas except by the Marin County Fire Department or other public agency for the purpose of public safety;
- b. Refilling a completely drained swimming pool and/or initial filling of any swimming pool;
- c. Non-commercial washing of privately-owned motor vehicles, trailers and boats except from a bucket and except that a hose equipped with a shut-off nozzle may be used for a quick rinse;
- d. Watering of any lawn, garden, landscaped area, tree, shrub or other plant except from a hand-held hose or container or drip irrigation system except sprinklers can be used if customer maintains the volume or percent reduction pursuant to the NMWD Board of Directors determination compared to a prior year's use in same billing period;
- e. Any non-residential use by a vehicle washing facility in excess of the volume percent or reduction pursuant to the NMWD Board of Directors determination;
- f. Irrigating landscape other than between the hours of 7pm and 9am the following day;
- g. Irrigating landscape more than \_\_\_\_\_ days per week;
- h. Irrigating landscape during or within 48 hours of measureable precipitation;
- i. Irrigating with potable water of lawn area on public street medians.

- j. Intertie deliveries through the intertie to Inverness Public Utility District (IPUD), except for critical needs as determined by the General Manager.

**Stage 3** Mandatory – achieve up to a \_\_\_\_\_%<sup>2</sup> reduction in water use by declaring a water emergency and implementing Stage 1 (Voluntary), Stage 2 (Mandatory) and the following additional Stage 3 (Mandatory) requirements.

- a. Watering any residential lawn, or any commercial or industrial area lawn maintained for aesthetic purposes, at any time day or night during the period of July 1, through October 31. (These designated lawns will be allowed to dry up for the summer). Affected customers will be advised on tested methods for re-greening the lawns at minimum expense beginning on November 1, during a Stage 3 mandatory period if operating conditions permit. By following the prescribed instructions, the affected customers will likely avoid the cost of replacing lawns.
- b. Planting any new landscaping, except for designated drought resistant landscaping authorized by NMWD.
- c. Public groups may apply to the General Manager for exemptions for watering specific public lawns used extensively for community wide recreation. Such public area lawn watering shall only be done under methods and time periods prescribed by the General Manager. Such exemptions will only be given by the General Manager, if the mandatory \_\_\_\_\_% reduction in water can otherwise be achieved on a service area basis.
- d. All day and nighttime sprinkling will be discontinued. Any and all outside watering will be done only with a hand held nozzle. An exception will be made to permit drip irrigation for established perennial plants and trees using manual or automatic time controlled water application sufficient only for assured plant survival.
- e. No new annual plants, vegetables, flowers or vines may be planted until the Stage 3 mandatory period is over. An exception will be considered on a case by case basis for customers who are eliminating existing thirsty landscaping and replacing same with drought resisting landscaping prescribed by NMWD, as in b. above.
- f. Limit deliveries of water to outside service area customers to that needed for human consumption, sanitation and public safety only or as stipulated in outside service agreements.
- g. Discontinue all water deliveries through the intertie to IPUD.

<u>Plan Preparation</u>	This plan has been coordinated with County, State and Federal Emergency Services Offices.
<u>Adoption of Plan</u>	The Stage of Action will be enacted after public hearing required by the District's Emergency Water Conservation Ordinance and a determination by the District's Board of Directors that a West Marin Water Shortage Emergency exists.
<u>Monitoring of Actual Water Use</u>	Monitoring of water use will be by meters with data analysis using the District's computers.
<u>Mandatory Prohibitions</u>	Wasting of water is prohibited by Regulation 17 of the North Marin Water District.  Stage 2 and Stage 3 of the Water Shortage Contingency Plan contain specific mandatory provisions.
<u>Revenue and Expenditure Analysis</u>	Temporary Drought Revenue Recovery Surcharge  In the event that mandatory water use restrictions or mandatory reduction in water use is triggered (Stage 2 or Stage 3 herein), a Temporary Drought Revenue Recovery Surcharge may be implemented. The Temporary Drought Revenue Recovery Surcharge will serve to mitigate the revenue loss resulting from a reduction in water use. The Temporary Drought Revenue Recovery Surcharge shall be a quantity charge for each 1,000 gallons as specified in District Regulation 54.



**NORTH MARIN WATER DISTRICT  
WEST MARIN SERVICE AREA  
EMERGENCY WATER CONSERVATION ORDINANCE NO. XX29**

April 74, 202014

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## EMERGENCY WATER CONSERVATION ORDINANCE

ORDINANCE NO. ~~XX~~29

AN ORDINANCE OF NORTH MARIN WATER DISTRICT DECLARING THE EXISTENCE OF A WATER SHORTAGE EMERGENCY CONDITION WITHIN THE WEST MARIN SERVICE AREA OF THE DISTRICT, PROHIBITING THE WASTE AND NON-ESSENTIAL USE OF WATER, AND PROVIDING FOR THE CONSERVATION OF THE WATER SUPPLY OF THE DISTRICT

BE IT ORDAINED by the Board of Directors of North Marin Water District as follows:

### ***Section 1. Declaration of a Water Shortage Emergency***

This Board of Directors does hereby find and declare as follows:

(a) A public hearing was held on ~~April 1~~March 18, 20~~20~~14, on the matter of whether this Board of Directors should declare a water shortage emergency condition exists within the West Marin water service area of this District which is served by wells adjacent to Lagunitas Creek.

(b) Notice of said hearing was published in the Point Reyes Light and West Marin Citizen, newspapers of general circulation printed and published within said West Marin water service area of the District.

(c) At said hearing all persons present were given an opportunity to be heard and all persons desiring to be heard were heard.

(d) Said hearing was called, noticed and held in all respects as required by law.

(e) This Board heard and has considered each protest against the declaration and all evidence presented at said hearing.

(f) A water shortage emergency condition exists and prevails within the portion of the territory of this District served by wells adjacent to Lagunitas Creek. Said portion of this District is hereinafter referred to as the West Marin area and consists in all the territory of this District generally known as Point Reyes Station, Inverness Park, Olema, Bear Valley and Paradise Ranch Estates. Said water shortage exists by reason of the fact that the ordinary demands and requirements of the water consumers in the West Marin area cannot be met and satisfied by the water supplies available to this District in the West Marin Service Area without depleting the water supply to the extent that there would be insufficient water for human consumption, sanitation and fire protection.

(g) On April ~~7~~1, 20~~20~~14 the Board of Directors enacted the North Marin Water District Water Shortage Contingency Plan for the West Marin Service Area (Plan) and said Plan defines specific triggers for stages of action applicable to District customers, and pursuant to this ordinance. The specific triggers for stages of action vary and are determined based on rainfall measured at the Marin Municipal Water District Kent precipitation gage, calendar period and water demands in the West Marin Service Area.

### ***Section 2. Purpose and Authority***

The purpose of this ordinance is to conserve the water supply of the District for the greatest public benefit with particular regard to public health, fire protection and domestic use, to conserve water by reducing waste, and to the extent necessary by reason of drought and the existing water shortage emergency condition to reduce water use fairly and equitably. This ordinance is adopted pursuant to Water Code Section 350 to and including 358, and Sections 31026 to and including

NMWD West Marin Model Emergency Water Conservation Ordinance

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Rev 04/1420



### **Section 3. Effect of Ordinance**

This ordinance shall take effect on April 1, 2020~~14~~, shall be effective only in the West Marin service area, shall supersede and control over any other ordinance or regulation of the District in conflict herewith, and shall remain in effect until the Board of Directors declares that the water shortage emergency has ended.

### **Section 4. Suspension of New Connections to the District's Water System**

(a) From July 1, 2014~~2020~~ until, the Board of Directors by resolution declares that the water shortage has ended, which period is hereinafter referred to as the suspension period, no new or enlarged connection shall be made to the District's water system except the following:

- (1) connection pursuant to the terms of connection agreements which prior to July 1, 2014~~2020~~, had been executed or had been authorized by the Board of Directors to be executed;
- (2) connections of fire hydrants;
- (3) connections of property previously supplied with water from a well which runs dry.
- (4) connection of property for which the Applicant agrees to defer landscape installation until after the suspension period.

(b) During the suspension period applications for water service will be processed only if the Applicant acknowledges in writing that such processing shall be at the risk and expense of the Applicant and that if the application is approved in accordance with the District's regulations, such approval shall confer no right upon the Applicant or anyone else until the suspension period has expired, and that the Applicant releases the District from all claims of damage arising out of or in any manner connected with the suspension of connections.

(c) Upon the expiration of the suspension period, the District will make connections to its water system in accordance with its regulations and the terms of connection agreements for all said applications approved during the suspension period. The water supply then available to the District will be apportioned equitably among all the customers then being served by the District without discrimination against services approved during the suspension period.

(d) Nothing herein shall prohibit or restrict any modification, relocation or replacement of a connection to the District's system if the General Manager determines that the demand upon the District's water supply will not be increased thereby.

### **Section 5. Waste of Water Prohibited**

No water furnished by the District shall be wasted. Waste of water includes, but is not limited to, the following:

- (a) permitting water to escape down a gutter, ditch or other surface drain;
- (b) failure to repair a controllable leak of water;



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

## **Section 6. Prohibition of Non-Essential Use of Water**

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

**Stage 1 - Voluntary Stage (XX45% reduction).** Achieve 45XX% reduction in water usage compared to the corresponding billing period in 2013 by encouraging voluntary rationing, enforcement of water wasting regulations and water conservation Regulation 17, requesting customers to make conscious efforts to conserve water, request restaurants to serve water only upon request, encourage private sector to use alternate source and encourage night irrigation.

### **Stage 2 - Mandatory Stage (XX25% reduction)**

(b) The following uses are declared to be non-essential from and after July 1, ~~2014~~2020:

- (1) washing sidewalks, driveways, parking areas, tennis courts, patios or other exterior paved areas except by the Marin County Fire Department or other public agency for the purpose of public safety;
- (2) refilling a swimming pool completely drained after July 1, 2020~~14~~ or initial filling of any swimming pool for which application for a building permit was made after April 1, 2020;
- (3) non-commercial washing of privately-owned motor vehicles, trailers and boats except from a bucket and except that a hose equipped with a shut-off nozzle may be used for a quick rinse.
- (4) Request restaurants to serve water only upon request.

(c) The following additional uses are declared to be non-essential from and after July 1, ~~2020~~14:

- (1) any use of water from a fire hydrant except for fighting fires, human consumption, essential construction needs or use in connection with animals;
- (2) watering of any lawn, garden, landscaped area, tree, shrub or other plant except from a handheld hose equipped with an automatic shut-off nozzle, container or drip irrigation system except overhead sprinkler irrigation can be used if customer maintains an overall XX25% reduction in water use compared to the corresponding billing period in 2013, (customers using less than 200 gallons per day are permitted to water their landscape without a XX25% reduction) and properly operates the irrigation system in a non-wasteful manner between the hours of 7:00 p.m. and 9:00 a.m. the next day. If sprinkler water is used in a wasteful manner, the General Manager may prohibit sprinkling by that customer.
- (3) Irrigating landscape more than 3 days per week or within 48 hours of measurable rainfall.
- (4) Irrigating lawn area on public street medians.
- (53) use of water for dust control at construction sites;
- (64) initial filling of any swimming pool for which application for a building permit was



made after April 1, 2020~~14~~;

- (75) use by a vehicle washing facility in excess of ~~XX~~25% less than the amount used by it during the corresponding billing period in 2013. If the facility was not operating in 2013, an assumed amount shall be computed by the District from its records.
- (86) any non-residential use in excess of ~~XX~~25% less than the amount used by the customer during the corresponding billing period in 2013. If connection to the District system was not in existence or use in 2013, an assumed amount will be computed from the District's records.
- (97) Intertie deliveries to Inverness Public Utilities District (IPUD), except for critical needs as determined by the General Manager
- (108) Deliveries to customers outside the service area except as needed for human consumption, sanitation and public safety or as stipulated in outside service agreements.

### **Stage 3 - Severe Mandatory Rationing (~~50~~~~XX~~% reduction)**

(d) From and after the date that the Board of Directors, by resolution, determines that the water shortage emergency requires severe rationing, the following additional uses are declared to be non-essential:

- (1) Watering any residential lawn, or any commercial or industrial area lawn maintained for aesthetic purposes, at any time of the day or night during the period of August 1, through October 31, when a Stage 3 is in progress.
- (2) Planting any new landscaping, except for designated drought resistant landscaping prescribed by the District.
- (3) All day and nighttime sprinkling will be discontinued. Any and all outside watering will be done only with a hand held nozzle. An exception will be made for carefully timed drip irrigation for established perennial plants and trees. Only sufficient water for assured plant survival may be applied.
- (4) No new annual plants, vegetables, flowers or vines may be planted during the Stage 3 emergency period. An exception will be made for customers who are eliminating existing thirsty landscaping and replacing same with drought resisting landscaping prescribed by the District, as in (2) above.

The combined rationing including Stage 1, 2, and 3 is designed to achieve a minimum reduction of ~~XX~~50% or more in West Marin service territory water consumption as compared with normal year annual usage.

(e) The percentages stipulated in Stage 2 and Stage 3 may be increased by the General Manager for any class of customer if the General Manager determines that such increase is necessary to protect the public health, safety and welfare or to spread equitably among the water users of the District the burdens imposed by the drought and the shortage in the District's water supply.



## **Section 7. Variances**

Applications for a variance from the provisions of Section 6 of this ordinance may be made to the General Manager. The General Manager may grant a variance to permit a use of water otherwise prohibited by Section 6 if the General Manager determines that the variance is reasonably necessary to protect the public health and safety and/or economic viability of a commercial operation. Any decision of the General Manager under this section may be appealed to the Board of Directors.

## **Section 8. Violations**

(a) If and when the District becomes aware of any violation of any provision of Section 5 or 6 of this ordinance, a verbal warning will be given, then if the violation continues or is repeated, a written notice shall be placed on the property where the violation occurred and mailed to the person who is regularly billed for the service where the violation occurs and to any other person known to the District who is responsible for the violation or its correction. Said notice shall describe the violation and order that it be corrected, cured and abated immediately or within such specified time as the General Manager determines is reasonable under the circumstances. If said order is not complied with, the District may forthwith disconnect the service where the violation occurs.

(b) For the first offense, a fee of \$50 shall be paid for the reconnection of any service disconnected pursuant to subsection (a) during the suspension period. For each subsequent violation of Section 8 (a), the fee for reconnection shall be \$75.

(c) No service which is disconnected twice because of a violation of Section 5 or 6 of this ordinance during the suspension period, shall be reconnected unless a device supplied by the District which will restrict the flow of water to said service is installed. Furthermore, the fee for reconnection of such a service during the suspension period shall be \$100 in lieu of the fee required by subsection (b) hereof.

## **Section 9. Signs on Lands Supplied from Private Wells**

The owner or occupant of any land within the West Marin water service area that is supplied with water from a private well shall post and maintain in a conspicuous place thereon a sign furnished by the District giving public notice of such supply.

## **Section 10. Drought Surcharge**

In the event a mandatory reduction in water use is triggered under the District's Water Shortage Contingency Plan for the West Marin Service Area, a Drought Surcharge will be implemented simultaneous with enactment of the mandatory stage. The Drought Surcharge will serve to mitigate the revenue loss resulting from a reduction in water use, as well as to offset the cost for water purchased from Marin Municipal Water District (MMWD) under the Interconnection Agreement between North Marin Water District and MMWD triggered by dry year conditions. The Drought Surcharge shall be a quantity charge for each 1,000 gallons as specified in District Regulation 54.

\* \* \* \* \*

I hereby certify that the foregoing is a true and complete copy of an ordinance duly and regularly adopted by the Board of Directors of North Marin Water District at a regular meeting thereof held on April 7<sup>th</sup>, 2020~~14~~ by the following vote:

AYES: ~~Directors Baker, Fraites, Petterle, Rodoni, Schoonover~~  
NOES: ~~None~~  
ABSENT: ~~None~~  
ABSTAINED: ~~None~~

(SEAL)



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Katie Young  
District Secretary  
North Marin Water District

**AGREEMENT  
BETWEEN NORTH MARIN WATER DISTRICT  
AND MARIN MUNICIPAL WATER DISTRICT**

This Agreement is made by and between the North Marin Water District (North Marin) and the Marin Municipal Water District.

For good and valuable consideration, receipt of which is hereby acknowledged, the parties agree as follows:

Section 1: Recitals.

- A. On February 5, 2014 the parties entered into the Interconnection Agreement under which North Marin wheels Marin Municipal's contractual share of water from Sonoma County Water Agency through the North Marin Aqueduct for distribution to Marin Municipal's customers in Marin County.
- B. Section 3C of the Interconnection Agreement provides for Marin Municipal, under specified conditions, to release water into Lagunitas Creek upon North Marin's request. Water in excess of 250 acre-feet per year may be released "subject to the availability of surplus water as determined solely by Marin Municipal."
- C. North Marin has requested that Marin Municipal make available, twenty acre feet of water pursuant to and under conditions specified in Section 3.C of the Interconnection Agreement, so that North Marin may treat that water and supply it, through a private water hauler, to the unincorporated West Marin agricultural community of Nicasio (Nicasio) that intermittently experiences limited water shortages.
- D. Nicasio has been identified by Marin County LAFCO as a priority review area regarding a possible amendment to the sphere of influence of Marin Municipal, and Marin Municipal desires to assist the residents of Nicasio with some of these water shortages.
- E. Marin Municipal acknowledges that both parties have pre-1914 water rights on Lagunitas Creek.

Section 2: Terms.

- A. Pursuant to Section 3 C of the Interconnection Agreement which provides that "Additional amounts of water may be released by Marin Municipal upon North Marin's request subject to the availability of surplus water as determined solely by Marin Municipal" the parties agree as follows:

**Normal and Wet Water Year Request for Additional Release of Available Surplus  
Water for Nicasio Residents**



- i. During a water year on Lagunitas Creek that is classified as other than a "dry year" under the water year classifications as established by the State Water Resources Control Board in its Order WR 95-17, North Marin may request and Marin Municipal may solely determine whether to release up to an additional twenty acre feet of surplus water to supply Nicasio.

North Marin shall make that request in writing to:

Water Supply Planning Unit  
Marin Municipal Water District  
220 Nellen Avenue  
Corte Madera, CA 94925

- ii. Marin Municipal shall consider North Marin's request and in Marin Municipal's sole discretion determine whether it has up to twenty acre feet of available water that is surplus to its needs.
- iii. If Marin Municipal determines that such surplus water is available, it will release as feasible no more than twenty acre feet of water from Lake Nicasio or from Kent Lake to North Marin for the sole purpose of supplying that water to Nicasio. Water delivered to Nicasio may be used only for domestic and livestock watering purposes. Any such surplus water released for purposes of supplying Nicasio is in addition to Marin Municipal's two hundred and fifty acre foot water delivery to North Marin described in Section 3C of the Interconnection Agreement.
- iv. North Marin shall pay Marin Municipal for the surplus water supplied for the Nicasio Community under the provisions of Section 6.C, "Compensation for Nicasio or Lagunitas Creek Deliveries and Other Water Delivered by Marin Municipal," of the Interconnection Agreement.
- v. Nothing in this Agreement shall be construed as a transfer of any portion of any water right held by either party, and each party shall hold the other party harmless should any state regulatory agency seek to take action against one or both parties as the result of the delivery of water in implementation of the agreement.

B. This agreement shall expire concurrently with the Interconnection Agreement referenced above, and may be terminated by either party upon sixty (60) days' advance written notice in the manner contemplated by the Interconnection Agreement to the other party..

North Marin Water District



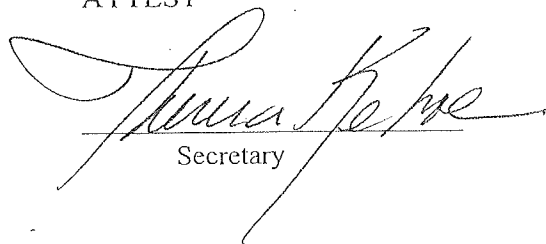
Rick Fraites  
President, Board of Directors

Marin Municipal Water District

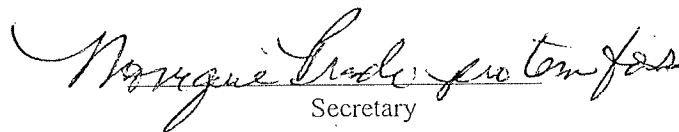


Armando Quintero  
President, Board of Directors

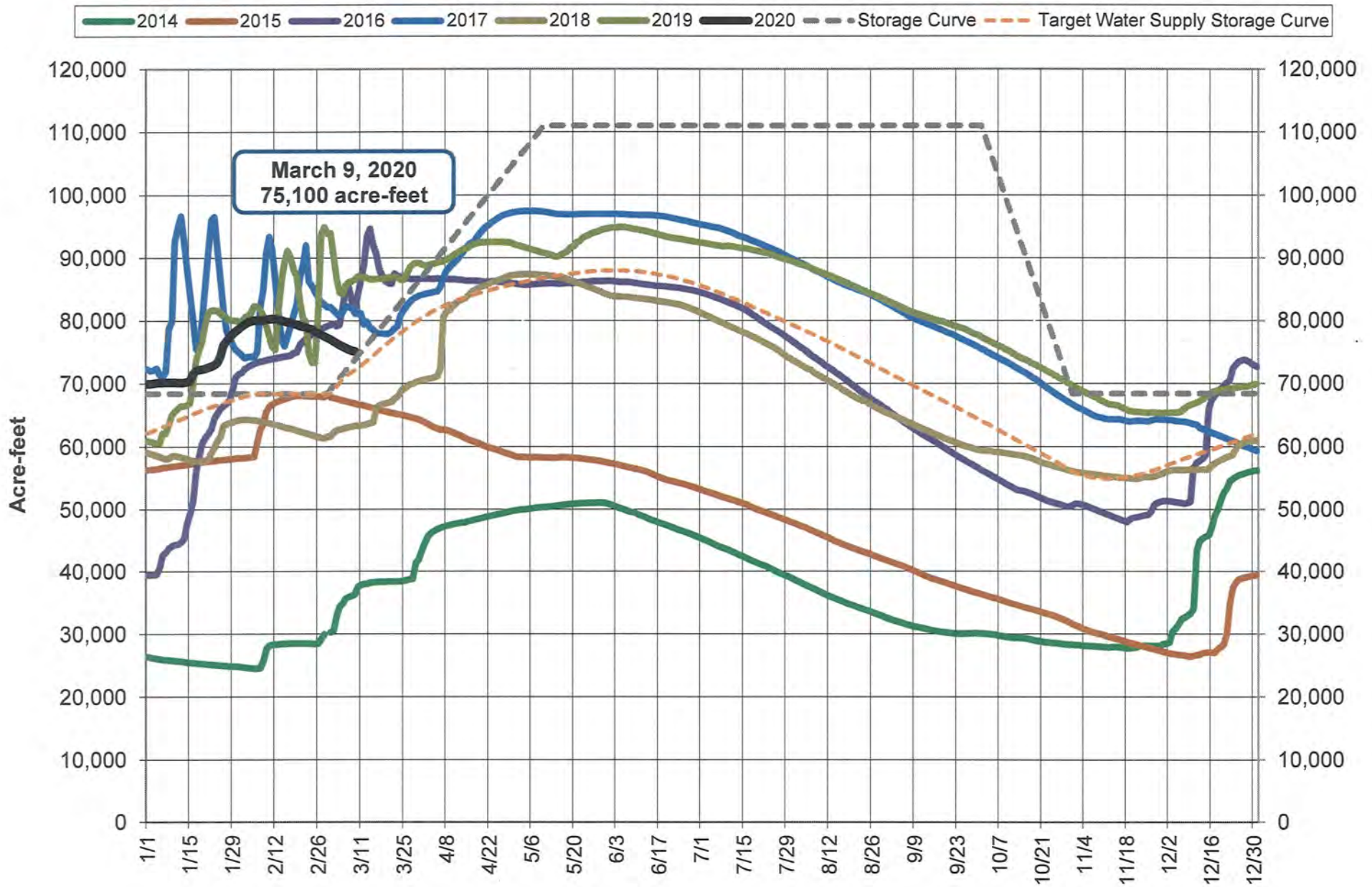
ATTEST

  
Secretary

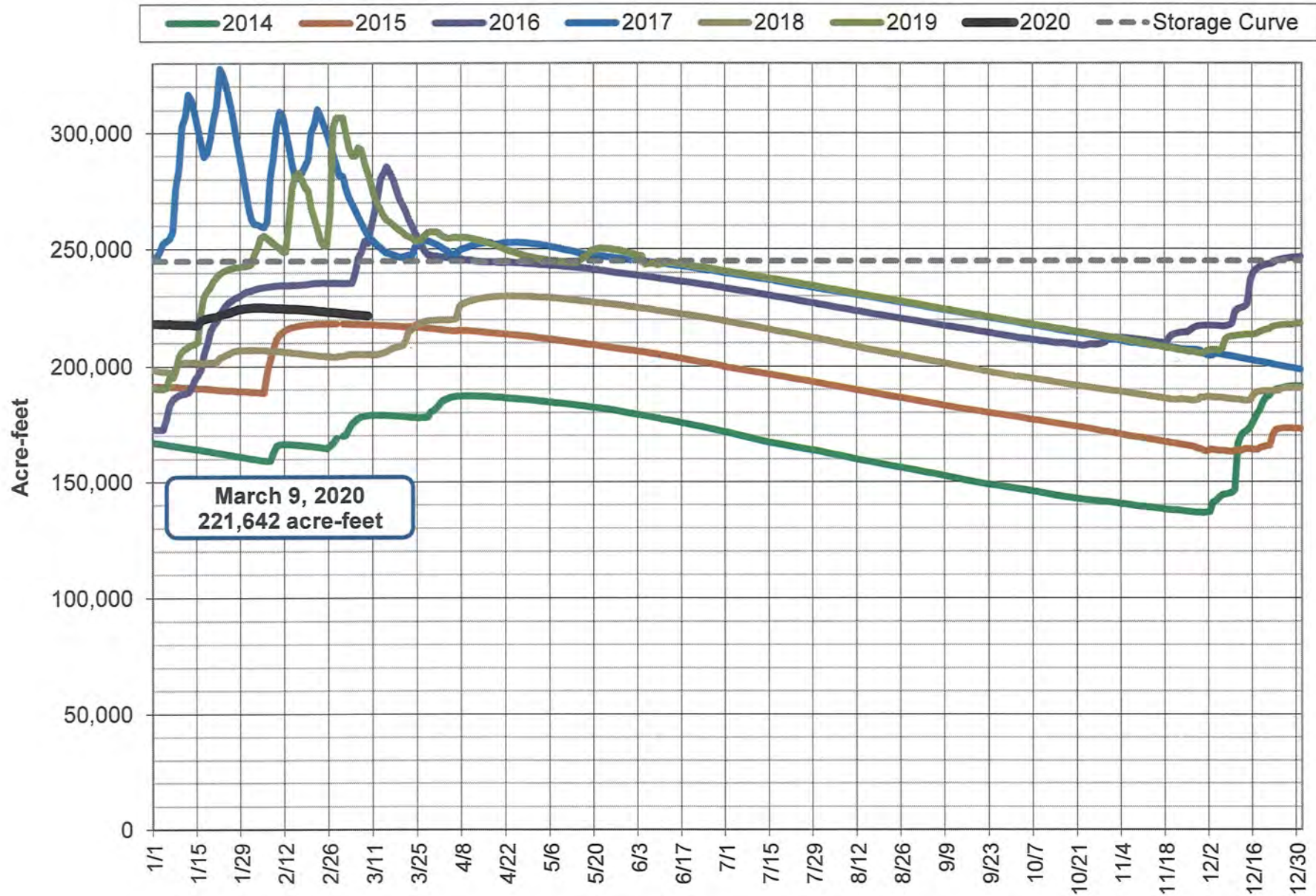
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Secretary

# Lake Mendocino Storage



# Lake Sonoma Storage



15





## North Bay Watershed Association

Board Meeting Notice

### March 6, 2020

9:30 am– 11:30 am

Napa Sanitation District

1515 Soscol Ferry Rd, Napa, CA  
94558

### Next Meeting

April 3rd, 2020

Sheraton Petaluma

NBWA Conference

## Board Meeting Agenda

- 1. Call to Order** 9:30 am  
*Jack Gibson, Chair*
- 2. Public Comment**
- 3. Approval of Agenda** 1 min.  
*Action: Approve*
- 4. Approval of Minutes** 1 min.  
*Action: Approve*
- 5. Treasure's Report** 1 min.  
*Action: Accept*
- 6. Executive Director's Report** 9:45 am
- 7. Board Member Information** 10:00 am
- 8. The California Water Commission** 10:15 am  
*Armando Quintero, Chair, CWC;*  
*Board Pres. MMWD; Executive Director of the University of California, Merced Sierra Nevada Research Institute*  
  
Armando will overview the role and authorities of the CWC and brief the Board on the CWC's decisions on Prop 1 water storage money and the new Ca. Water Resilience Portfolio, as they pertain to the North Bay.  
Note: Leon Garcia, City of Am Cyn, will follow up with remarks regarding the Sites Reservoir work being funded through this Prop 1 allocation.  
*Board Update and Discussion*
- 9. Update on New State Bond Discussions** 11:10 am  
*Chris Choo, Marin Co,*  
Chris will review the current status of bond discussions and where the North Bay may benefit from bond opportunities  
*Information*
- 10. Announcements** 11:25 am

**Next meeting: Conference**

16

**DISBURSEMENTS - DATED MARCH 5, 2020**

Date Prepared 3/3/20

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:

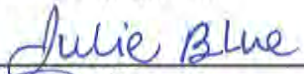

Seq	Payable To	For	Amount
*90258	CalPERS	March Health Insurance Premium (Employees \$49,661, Retirees \$11,879 & Employee Contribution \$10,218)	\$71,758.53
*90259	US Bank Card	AWWA "Writing With Purpose" Workshops (Corda & LeBrun) (\$200), Aatrix Tax Forms 1094, 1095 & 1099) (\$172), Birthday Lunches (\$246), Craigslist-HR/Safety Manager Position (\$150), Costco (Lab, Const & STP Supplies) (\$296), AWWA-Water Meters & Backflow Prevention Books (\$198), Marin IJ-Invite & Bid for Gallagher Ranch Streambank Stabilization Project (\$488), Drill Bits (3) (\$222), Sympathy Flowers for Employee (\$77), Lodging (\$285) & Meals (\$76) for CSMFO Conference (Blue) & Less Credit for Cancelled Hotel Reservation for AWWA Conference (\$582)	1,827.56
1	AT&T	February Internet Connection -STP	96.30
2	Bold & Polisner	January Legal Fees (Potter Valley Project-FERC-\$441 & General-\$3,990)	4,431.00
3	Borges & Mahoney	Repair of 2nd Regulator @ STP	1,697.20
4	Carmin, Anne	Novato "Toilet Rebate" Ultra High Efficiency Program	450.00
5	Charles Custom Welding	Welding Services (6" Dog Leg for NUSD)	580.00
6	DiCarlo, Scott	Refund Alternative Compliance Reg 15 Deposit	945.00
7	Environmental Science Assoc	Prog Pymt#6: NMWD San Mateo Tank Permitting Assistance (Balance Remaining on Contract \$9,788)	3,752.50
8	Fishman Supply	Ear Plugs (400) (\$51) & Anti-Biotic Ointment (10)	77.21
9	Flaum, Russell	Novato "Toilet Rebate" Program	300.00



Seq	Payable To	For	Amount
E08828	GHD	Prog Pymt#4: Oceana Marin Treatment & Storage Pond Repair (Balance Remaining on Contract \$111,957)	3,106.75
57361	Giovingo, Margaret	Novato 'Toilet Rebate' Program	200.00
57362	Grainger	Tape Measure (100'), Elbows (6) (\$34), US & California Flags (\$88), Lock Out Tags (3) (\$155), Wire Stripper, Coupler ('19 Ditch Witch) (\$88) & Parts for North St Generator Transfer Switches	429.39
57363	R. Hansen Trustee & D. Wing	Refund Overpayment on Closed Account	84.52
57364	John's Dairy Equipment & Supply	Hydrogen Peroxide for Cleaning STP Clearwells (30 gals)	259.80
57365	Kaiser Foundation Health Plan	DMV/DOT Physical (Williamson)	115.00
E08829	Maltby Electric	Parts for Ferric Tank (\$383) & North St Gen Transfer Switches (\$186)	568.56
57366	County of Marin	Annual Encroachment Permit	490.00
E08830	McLellan, WK	Misc Paving (\$4,140) & Thermo Plastic Set-Up Fee & Striping (\$838)	4,977.91
57367	Mettler-Toledo Rainin	Annual Pipet Calibration (Lab)	406.00
57368	Mutual of Omaha	March Group Life Ins Premium	987.05
57369	Office Depot	Toner (2) (\$136), Clipboards (6), Card Stock (2 reams) & #9 Envelopes (3,000) (\$72)	240.91
57370	O'Reilly Auto Parts	Cleaning Products for Fleet	359.11
57371	Ottoboni, Megan	Novato 'Toilet Rebate' Program	200.00
E08831	Pace Supply	Hymax Grip (\$342), Parts for Atherton Regulators (8) (\$2,311), Copper Pipe (2,400') (\$9,189), Meter Spuds (40) (\$361), Couplings (12) (\$323), Alum & Copper Cutter Wheels (2) & Blue Monster Thread Tape (24) (\$153)	12,707.50
E08832	Paso Robles Tank	Prog Pymt#3: Perform Recoating & Rehab of Cherry Hill No. 2 Project (Balance Remaining on Contract \$160,046)	42,940.00
57372	Peterson Trucks	Oil Liner ('02 Dump Truck)	74.19

Seq	Payable To	For	Amount
27	Pollard Water	Misc Hardware	97.77
28	R & B	Elbows (6) & Couplings (15) (\$2,447)	2,530.98
29	Rupp, Steve	Exp Reimb: DMV/DOT Physical	125.00
30	Skewes-Cox, Amy	Prog Pymt#6: Provide Initial Study/Mitigated Negative Declaration for Old Ranch Road Tank (Balanced Remaining on Contract \$2,691)	3,190.00
31	Snow, Marjorie	Refund Overpayment on Closed Account	160.33
32	Soiland	Asphalt Recycling (6 tons)	59.00
33	Solar, Rosalia	Exp Reimb: Ergonomic Back Pillow for Desk Chair	59.62
34	Sonoma County Tree Experts	Tree Removal @ STP (2)	6,480.00
35	South Bay Foundry	Valve Caps (50)	1,674.53
36	Staples Business Credit	Toner (\$83) & Misc Office Supplies (\$267)	349.84
37	State Water Resources Control	D2 Certification Renewal (Kane) (Budget \$90) (7/1/20-7/1/23)	130.00
38	Tamagno Green Products	Sludge Removal @ STP (Balance Remaining on Contract \$10,410)	840.00
39	VWR International	Endo Broth (2) (Lab)	175.16
40	Waste Management	Green Waste Disposal	301.58
41	Williamson, Nancy	Exp Reimb: Registration Fee for GFOA Annual Conference in New Orleans 5/17/20	465.00
42	WQI (Jim Burns)	Water Distribution Review Grade I/II (Northen & Rupp)	1,000.00
<b>TOTAL DISBURSEMENTS</b>			<b><u>\$171,700.80</u></b>

The foregoing payroll and accounts payable vouchers totaling \$171,700.80 are hereby approved and authorized for payment.

	3/4/2020
Auditor-Controller	Date
	3/4/2020
General Manager	Date

## ***DISBURSEMENTS - DATED MARCH 12, 2020***

Date Prepared 3/10/20



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 2/29/20	\$145,754.03
EFT*	Internal Revenue Service	Federal & FICA Taxes PPE 2/29/20	62,179.60
EFT*	State of California	State Taxes & SDI PPE 2/29/20	12,838.82
EFT*	CalPERS	Pension Contribution PPE 2/29/20	37,407.97
1	Able Tire & Brake	Alignment ('08 F250) (\$108) & Tires (4) ('18 Dodge Ram) (\$1,132)	1,240.02
2	AC3	Annual Crane Inspection	1,100.00
3	Alpha Analytical Labs	Lab Testing	185.00
4	Arrow Benefits Group	February Dental Expense	2,700.23
5	Athens Administrators	February Replenishment for Checks Written	126.59
6	AT&T	Telephone (\$63), Fax (\$82), Leased Lines (\$140) & Data (\$177)	462.26
7	Badger Meter	1 1/2" Meters (18)	7,769.82
8	Borges & Mahoney	Seat (2), Oil Seal & Gear Oil (2) (\$109) (STP)	216.84
9	Caltest Analytical Laboratory	Lab Testing	81.05
10	DataTree	February Subscription to Parcel Data Info	100.00
11	Diesel Direct West	Diesel (200 gals) (\$711), Gasoline (503 gal) (\$1,584) & Fuel for STP Generator (1,000 gal)	4,957.38
12	Digi-Key	Cell Modem for Wild Horse P/S (\$397 & Kastania P/S (\$397)	794.34
13	Direct Line	March Telephone Answering Service	160.00
14	Friedman's Home Improvement	Breaker (2) & Electric Box for North Street Lift Station (\$52)	73.62

Seq	Payable To	For	Amount
15	Grainger	Cleaning Products for Maint/Yard (\$308), Brush for Wash Rack/Yard, Hammer Drill Bit, Plugs for Gen Transfer Switches (\$138), Hose Fittings for Vac (\$288), Plumbing Supplies (\$81), Padlock (STP), Hose Clamps for Vac Hose (\$78), Spray Bottles (6) & Conduit Clamps (6) (Ferric Tank) (\$72)	1,094.94
16	Hach	pH Probes (3) (STP)	3,260.49
17	Lincoln Life	Deferred Compensation PPE 2/29/20	10,074.04
18	Maltby Electric	Transfer Switch & Plug for Gallagher Well (\$1,058), Strut for Radio/Conduit (\$165) & Strain Relief for Cable (\$49)	1,272.14
19	Marin Landscape Materials	Soil (1 yd), Rock (520 lbs) (Air Base Tank) (\$56), Wood Chips (4 yds) (Admin Yard) (\$139) & Block for Retaining Wall (Admin Yard) (\$329)	567.46
20	Marin County Ford	Service Parts ('15 F250)	59.05
21	Marin County Tax Collector	Emergency Repairs on District Radio System	1,188.96
22	Nationwide Retirement Solution	Deferred Compensation PPE 2/29/20	995.00
23	NEXGEN	Prog Pymt#4-#9: Provide Assistance for Asset Management Software Procurement & Implementation (Balance Remaining on Contract \$128,941)	139,193.00
24	North Marin Auto Parts	Front End & Service Parts ('08 F250) (\$436), Service Parts for Crest Generator, Service Parts for OM Generator (\$73), Hose Clamps (22), Engine Cleaner, Service Parts, Brake Pads & Rotors ('03 Dodge Dakota) (\$242), Spark Plug for Water Trailer, Towels & Brake Cleaner for Shop (\$159)	994.02
25	Novato Builders Supply	Mason Mix, Fence Supplies (Air Base Tank) (\$104) & Cement & Cart (1/2 yd) (\$166)	290.14
26	Prunuske Chatham	Prog Pymt #5: Leveroni Creek Embankment Repair Project (Balance Remaining on Contract \$26,520)	3,287.50
27	R & B	Angle Meter Stops (80)	3,775.80
28	Recology Sonoma Marin	February Trash Removal	510.80

Seq	Payable To	For	Amount
29	Reed, Corey	Exp Reimb: Safety Boots	196.19
30	Scales, Stryker	Refund of Deposit/New Development/WC Restriction-Novato	1,000.00
31	Sonoma County Water Agency	Conservation Support Program (10/1/19-12/31/19)	3,434.56
32	Syar Industries	Asphalt (5 tons)	819.99
33	The Transmitter Shop	Recondition & Calibrate Level Transmitter @ Sunset Tank	275.00
34	Trattoria Ghiringhelli Catering	Deposit for Holiday Party (12/12/20)	1,785.00
35	Verizon Wireless	Cellular Charges: Data (\$811), Airtime (\$48) & iPads for Asset Management (\$200)	1,058.60
36	Verizon Wireless	SCADA (\$121) & AMI Collectors (\$650) & CIMIS Station	786.36
37	Victory Auto Plaza	Service Parts ('19 Chevy Colorado)	62.78
38	VWR International	Ampoule Log (20) (Lab)	101.56
<b>TOTAL DISBURSEMENTS</b>			<b><u>\$454,230.95</u></b>

The foregoing payroll and accounts payable vouchers totaling \$454,230.95 are hereby approved and authorized for payment.

 Auditor/Controller	3/10/2020 Date
 General Manager	3/10/2020 Date

# BOARD OF DIRECTOR'S 2/29/20

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## FEBRUARY MEETINGS

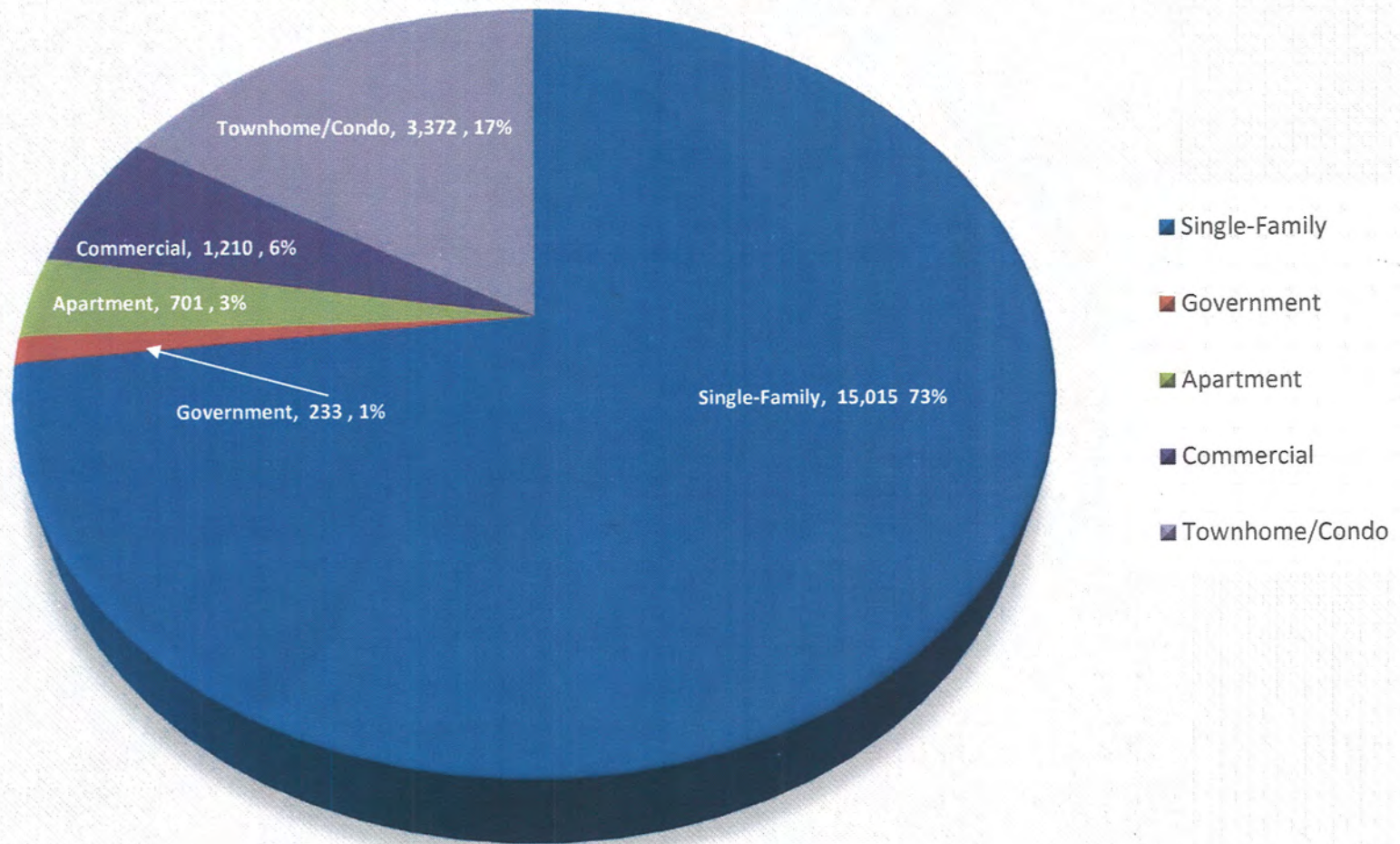
		Baker	Fraites	Grossi	Joly	Petterle
Reg Meeting	2/4/2020	241.00	\$241.00	\$241.00	\$241.00	\$241.00
Special Meeting	2/11/2020	241.00	\$241.00	\$241.00	\$241.00	
Reg Meeting	2/18/2020	241.00	\$241.00	\$241.00	\$241.00	
Special Meeting	2/25/2020	241.00	\$241.00	\$241.00	\$241.00	\$241.00
*Extra Meeting		241.00	\$241.00			
Total		1,205.00 ✓	1,205.00 ✓	964.00 ✓	964.00 ✓	482.00 ✓

\*WAC Meeting on  
2/3/20

\*North Bay  
Watershed Assoc  
Meeting on  
2/7/20



## Novato Water Services by Type





## MEMORANDUM

To: Board of Directors

March 13, 2020

From: Julie Blue, Auditor-Controller *JB*  
Nancy Williamson, Senior Accountant *NW*

Subj: Update – Polybutylene Pipe Population  
t:\ac\board reports\board memos\2019\pb population update fy19.docx

**RECOMMENDED ACTION:** None

**FINANCIAL IMPACT:** None

In December 2010 the final product liability settlement agreement was reached with the manufacturers, extruders, and distributors of Polybutylene (PB) pipe in regards to premature failure of PB pipe. A 2011 Memorandum recounting the liability claim settlement is attached (Attachment A). This memo provides the status of the replacement plan of PB pipe.

To date the District has replaced 89% of the installed PB pipe population. Attachment B shows that the PB pipe annual failure rate jumped to over 3% of the population beginning in FY08, and has steadily climbed running at an average of 12% in the last 5 fiscal years. Assuming the failure rate remains constant at 12% and 60 services are pre-emptively replaced annually, the entire PB population will be replaced by 2026 (Attachment C).

Note on Attachment D that the number of failures occurring annually over the past 25 years is trending upward, and averaged 124 per year over the past ten years. This is a 65% increase over the prior 10-year period, demonstrating that the pipe has reached the end of its useful life and that maintaining the planned replacement program is worthwhile.

## MEMORANDUM

To: Board of Directors

April 1, 2011

From: David L. Bentley, Auditor-Controller

Subj: Information – Polybutylene Pipe Product Liability Claim Close  
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The District's polybutylene (PB) pipe product liability claim settlement agreement with Shell Oil concluded in December 2010. Following is a wrap-up report.

### Background

The District began using PB pipe in place of copper for its service line installations in fiscal year 1970/71. PB pipe sold for pennies on the dollar compared to copper, and was warranted to have the same life as copper. The District installed 6,510 PB services through FY1984/85. Commencing in the early 1980s the District began to recognize an increasing rate of premature failure in the PB service lines, primarily cracking and pinholes near the main and meter fittings, but also longitudinally along the center of the span. Response from the manufacturer was that the District was not installing the product correctly.

Crews experimented with a variety of installation techniques, yet the failures escalated. Circa 1985/86, the District learned about a product liability claim by the City of San Antonio, Texas, regarding PB pipe. The District contacted San Antonio's legal counsel, accumulated data, and filed claim against the manufacturers, extruders, and distributors of PB pipe, as well as the manufacturers of compression fittings used for installation of the pipe. The District's claim asserted that the pipe is "subject to failure in the nature of cracking, splitting, shearing and pinholing, the pipe is not durable, prematurely deteriorates and decays, and is wholly unsatisfactory for use in the District's water distribution system." Six years later, settlement was reached with all seven defendants. Cash settlement money received totaled \$1,088,500.

### Resin Manufacturers

Mobil Oil (1,718 services installed 1971-73).....	\$100,000
Witco (2,100 services installed 1974-78) .....	495,000
Shell Oil (2,326 services installed 1978-85) .....	42,000

### Extruder

Wesflex .....	100,000
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### Distributor

P.E. O'Hair .....	175,000
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### Fittings Manufacturers

Ford Meter Box .....	150,000
Mueller .....	26,500

Total settlement money received .....	<u>\$1,088,500</u>
---------------------------------------	--------------------

### Prospective Agreements

In addition to the cash settlements, the District entered into prospective agreements with Shell Oil and P.E. O'Hair for further reimbursement. Shell Oil agreed to share in the cost of replacement of certain PB failures occurring in pipe installed after July 1, 1978 (the date Shell assumed ownership of the resin manufacturing company) through 2010. In addition, P.E. O'Hair agreed to sell the District \$175,000 of Type K copper service line at its wholesale cost. The amount received from these defendants under the prospective agreements (now concluded) totaled \$214,504.

Shell Oil reimbursement.....	\$195,691
P.E. O'Hair wholesale discount .....	18,813
Received under prospective agreements.....	<u>\$214,504</u>

The District installed 2,326 services with Shell PB resin from July 1978 through December 1985. Since the settlement with Shell, the District experienced 423 Shell service line failures subject to reimbursement. Total settlement and prospective agreement money received was \$1,303,004.

Total settlement money received.....	\$1,088,500
Received under prospective agreements .....	214,504
Total settlement .....	<u>\$1,303,004</u>

### Cost of Litigation

The District spent \$393,061 in legal and expert witness fees to obtain the settlements achieved. Staff time incurred in researching and documenting the claim, the majority of which was expended by Chief Engineer Jim Fritz, and miscellaneous other expenses, totaled \$65,521. Staff time does not include District administrative staff, which was not accounted for separately.

Legal Expense:

Edward L. Kurth, Attorney at Law.....	\$38,679
Jones Kurth & Treat .....	90,673
Sawtelle Goode et al .....	204,731
Bold & Polisner .....	26,111
Bianchi Engel et al .....	11,112
Ragghianti Lusse et al.....	6,350
Expert Witness Fees .....	15,406
Total Legal Expense .....	<u>\$393,061</u>

#### Staff & Other Miscellaneous Expense:

Staff time.....	\$62,468
Other miscellaneous expense .....	3,053
Total Staff & Other .....	<u>\$65,521</u>

Total Legal & Staff Expense .....	<u>\$458,583</u>
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### Damages Incurred

From 1971 through 1985, the District installed 6,143 PB services. In addition, 367 PB services that failed prior to 1986, before the problem was identified as a defective product, were replaced with new PB. Through June 30, 2010, the District suffered 2,012 service line failures and replaced 1,825 services on a pre-emptive basis (i.e., replacement prior to failure). Thus, there are 2,306 PB services remaining in the system. The repair and replacement cost of the PB thus far has been:

		Avg cost per service
PB Replacement Expense through 6/30/10		
1,645 Emergency Repairs (Post 1985).....	\$3,174,089	\$1,930
367 Emergency Repairs (Pre 1985) <sup>1</sup> .....	500,000	1,362
1,825 Pre-emptive Replacements .....	<u>1,721,674</u>	<u>943</u>
Total PB Replacement Expense to date .....	\$5,395,763	\$1,406

### Estimated Future Damages

The District has replaced 59% of the installed PB pipe population. Attachment A shows that the PB pipe annual failure rate jumped to over 3% of the population beginning in FY08 and has remained there, running in excess of 3% again in FY11. The Novato Water System Master Plan forecasts replacement of 100 PB services annually, up from the historical average of 70 per year as shown on Attachment B. Assuming the failure rate remains constant at 3% and 100 services are pre-emptively replaced annually, 740 additional failures will occur over the next 19 years, at which time the entire PB population will have been replaced. This forecast exceeds the 22 year period based on the historical trend (Attachment C).

The average cost to repair a service on a pre-emptive basis was \$1,453 over the past five years, compared to \$2,622 when done on an emergency basis. The District therefore faces another \$4,700,000<sup>2</sup> in estimated future cost to replace the remaining PB services. To recap:

#### Cost:

PB Repair Cost Incurred to Date .....	\$5,395,763
Expected Future PB Repair Cost .....	<u>4,700,000</u>
Subtotal .....	\$10,095,763
Cost to Wage Lawsuit .....	<u>458,583</u>
Total Cost .....	\$10,554,346

#### Cost Recovery:

Money Received from Lawsuit .....	\$1,303,004
Net Out-Of-Pocket	
Due to Defective PB Product .....	<u>\$9,251,342</u>

### Path Forward

<sup>1</sup> Amount is estimated - actual cost of emergency PB repairs prior to 1985 was not accounted for separately.

<sup>2</sup> Pre-emptive replacement of 1,900 services at \$1,453 plus emergency replacement of 740 services at \$2,622 = \$4,700,980.

The cost of repairing a service on a planned pre-emptive basis averaged \$1,453 over the past five years, compared to \$2,622 when done on an emergency basis. Obviously it is advantageous to replace services in mass on a pre-emptive basis in those areas where frequent failure is experienced.

Note on Attachment D that the number of failures occurring annually over the past 25 years is trending upward, and averaged over 100 during the past three years. This is a 67% increase over the prior 10-year period, suggesting that the pipe is reaching the end of its useful life and that maintaining the planned replacement program is worthwhile. Note the contrast with copper service line failures, which, as a percentage of the population of pipe in the ground, are remaining relatively constant at less than 0.5%, while PB failures over the past five years have spiked to 3% (Attachment E).

However, the rate of Shell pipe failures, tracked separately under the settlement agreement, is declining (Attachment F). This gives some credence to Shell's argument that the resin formula and extrusion process was corrected under their ownership so that the premature failure problem was resolved. In fact, over 80% of the installed Shell pipe remains in service<sup>3</sup>. T

Therefore, the preplanned replacements will be targeted to replace the Mobil and Witco services installed between 1971 and 1978. We will continue to monitor the Shell pipe failures before moving to pre-emptively replace them.

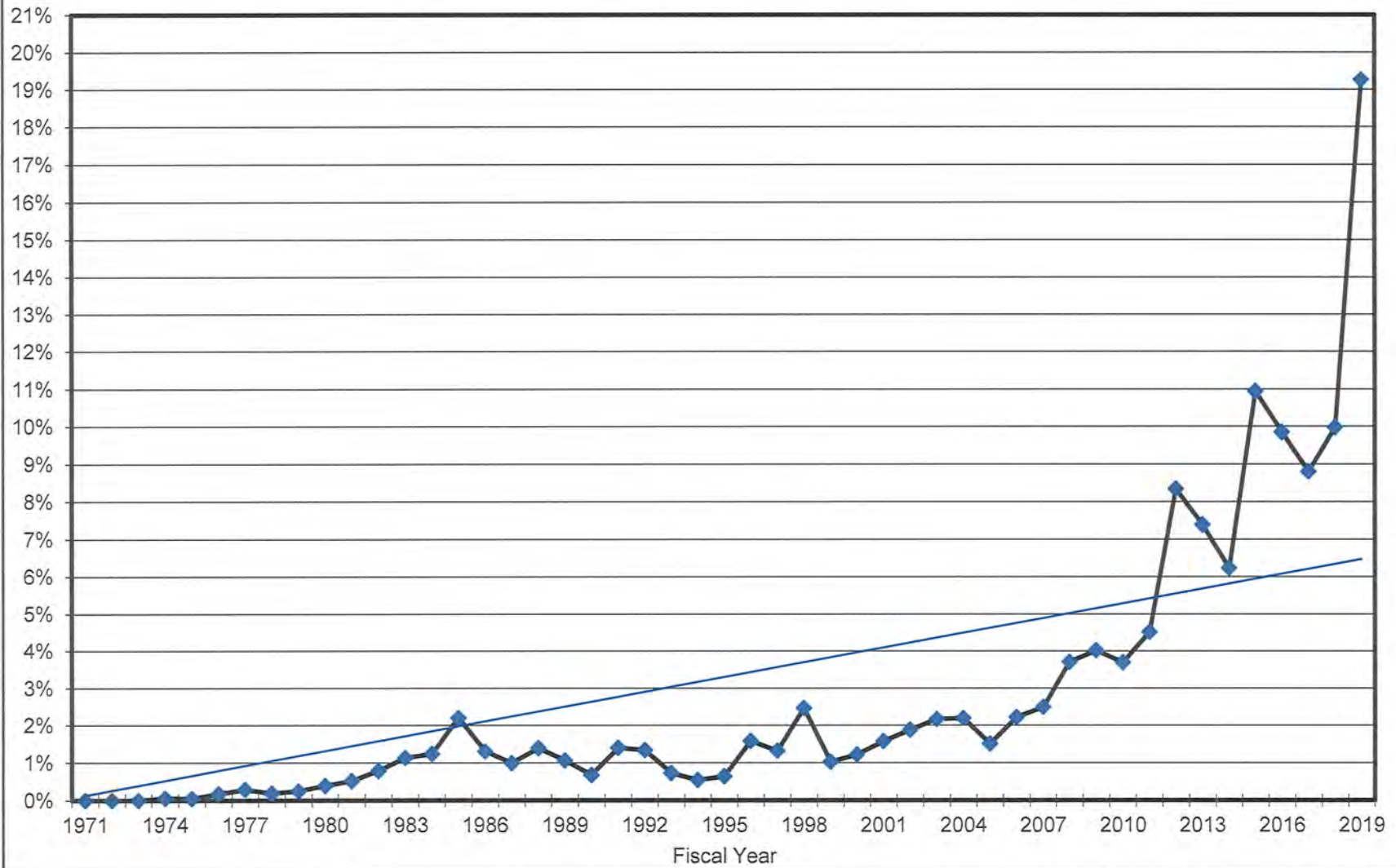
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<sup>3</sup> Services installed with Shell resin comprised 2,326 (36%) of the 6,510 total PB services installed. At 6/30/10 Shell's 1,891 remaining services comprised 71% of the 2,673 PB services remaining.

3/13/20

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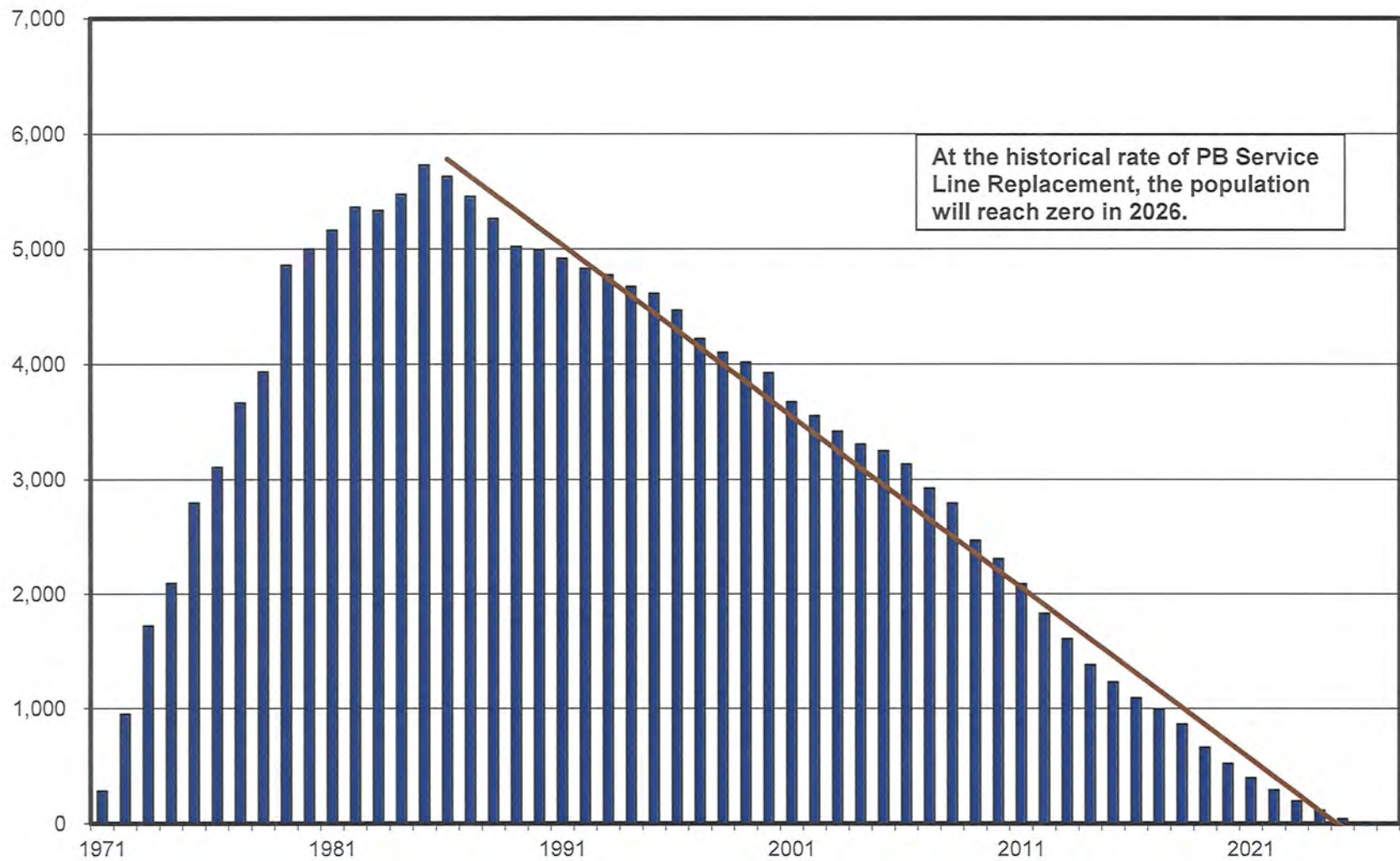
### % of Polybutylene Pipe Population Failing by Fiscal Year



3/13/20

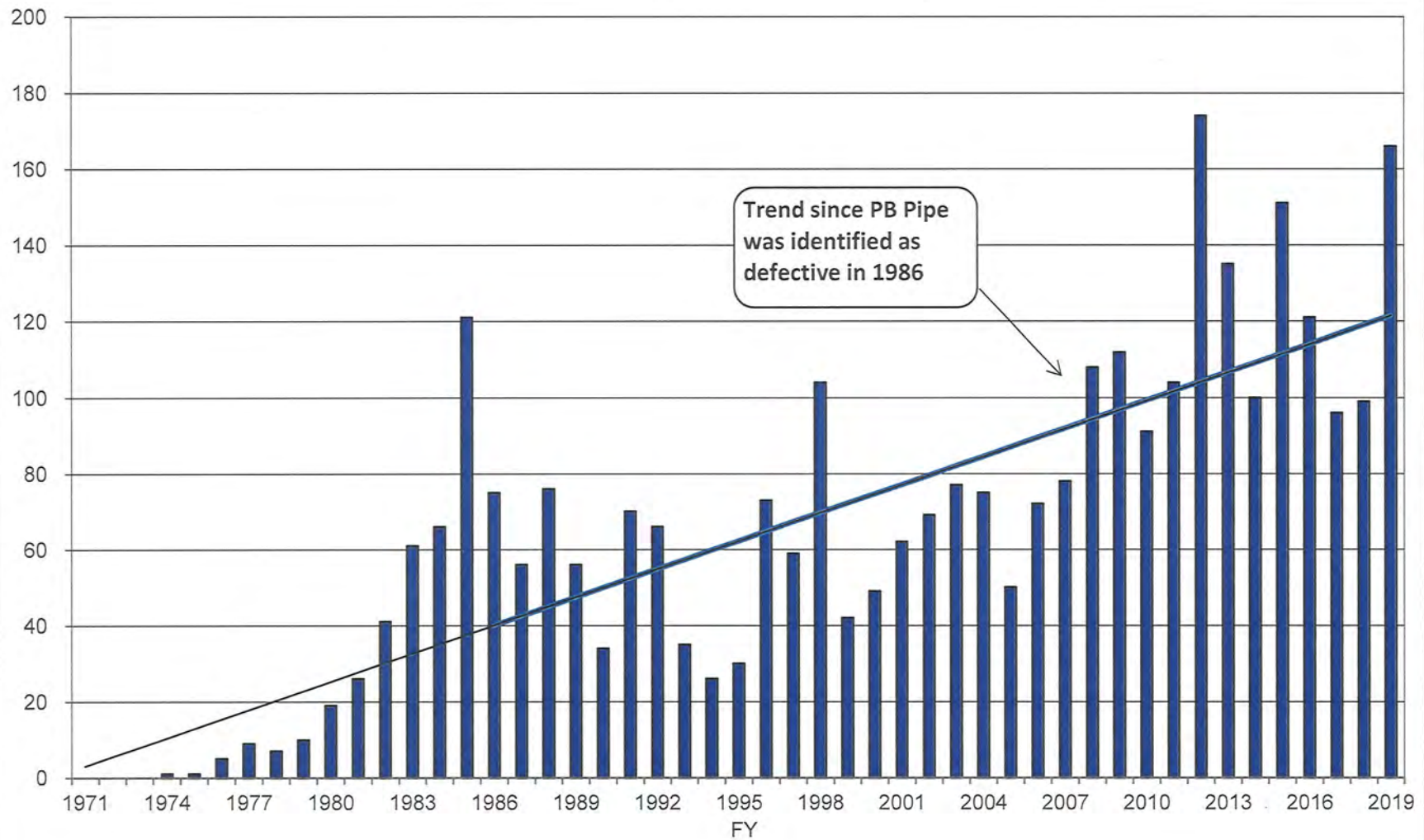
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## NMWD Polybutylene Pipe Service Line Population





### Polybutylene Pipe Failures by Fiscal Year



## MEMORANDUM

To: Board of Directors

From: Drew McIntyre, General Manager/Acting Chief Engineer  
Robert Clark, Operations/Maintenance Supervisor



March 13, 2020

Subj: Coronavirus Update  
t:\gm\bod misc 2020\coronavirus update 03\_13\_20.docx

The purpose of this memo is to provide an update on Coronavirus planning since my last verbal report at the March 3<sup>rd</sup> meeting. As we all know, information is changing quickly regarding COVID-19. We continue to follow the guidance and recommendations of Marin County Health and Human Services. As such, Robert Clark is participating in regular calls with Marin County Office of Emergency Services (OES). In addition, I will be participating in frequent coordination calls between the City and local special district managers starting next week. Below is a summary of COVID-19 activity in Marin as of yesterday (see attachment). More information is available on the official Marin County Coronavirus webpage [www.MarinHHS.org/coronavirus](http://www.MarinHHS.org/coronavirus).

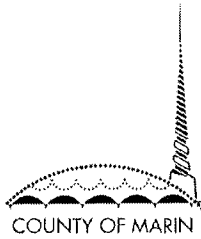
- Confirmed cases in Marin with known source: 3
- Confirmed cases in Marin from local transmission: 0
- COVID-19 related deaths in Marin: 0

Yesterday, Governor Newsom issued Executive Order N-25-20 further enhancing the ability of state and local public health officials to respond to COVID-19 and limiting attendance at public assemblies, conferences, or other mass events.

We continue to ask that employees follow public health guidance recommendations including regular and thorough washing of hands, covering coughs or sneezes and staying home when you are sick. The District is also implementing the following interim actions to further limit potential exposure to COVID-19:

1. Increased nightly cleaning and disinfection procedures by our Janitorial staff
2. Increased distribution of tissues and waste baskets
3. Expanded posting of CDC flyer on public health guidance recommendation
4. Restricted use of our restrooms to the public
5. Restricted Staff from in-home house calls (e.g., WQ, water leak inspections, etc.)
6. Suspended all new travel requests for large group conferences and training

Please note that we are also revising the Boardroom configuration to allow for 6-foot spacing between Board members.



DEPARTMENT OF  
**HEALTH AND HUMAN SERVICES**

Promoting and protecting health, well-being, self-sufficiency, and safety of all in Marin County.

**Marin County COVID-19 status update: March 12<sup>th</sup>, 2020**



Benita McLarin, FACHE  
DIRECTOR

Matthew Willis, MD, MPH  
PUBLIC HEALTH OFFICER

Lisa M. Santora, MD, MPH  
DEPUTY PUBLIC HEALTH OFFICER

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[marinhhs.org/public-health](http://marinhhs.org/public-health)

**Guidance for Skilled Nursing Facilities and other Senior Facilities:**

Marin County Public Health released new standards for protecting the residents of skilled nursing facilities and other congregate settings for vulnerable populations. These recommendations are effective immediately through March 26, 2020 and will be evaluated based on the evolving situation. Guidance for Skilled Nursing Facilities and other Senior Facilities

**New Guidance for outdoor events**

In conjunction with our previously issued guidance on large gatherings with 100 or more people indoors, we are also recommending that outdoor gatherings that include 250 people or more should be postponed or cancelled through March 26, 2020.

**COVID-19 activity in Marin:**

- Confirmed cases with known source: 3
- Confirmed cases from local transmission: 0
- COVID-19 related deaths in Marin: 0
- All 56 Marin residents who traveled on the Grand Princess – Mexican Riviera voyage have been contacted. Three were hospitalized with symptoms. One tested positive for COVID-19, two tested negative.
- To date, Marin health officials are still awaiting the manifest to determine which Marin County residents were on the Grand Princess Cruise – Hawaiian voyage.
- As of March 12, there are 198 cases and four deaths in California, according to the California Department of Public Health.

**SBA To Provide Small Businesses Impacted by COVID-19 Up to \$2 Million in Disaster Assistance Loans**

If your small business has been affected by COVID-19 here is where you can find more information about SBA disaster assistance loans.

**Where to get the latest information:**

Visit the official Marin County Coronavirus webpage ([MarinHHS.org/coronavirus](http://MarinHHS.org/coronavirus)) to review answers to frequently asked questions or subscribe to receive email updates. Individuals can contact Marin Health and Human Services with non-medical questions about the

coronavirus by calling (415) 473-7191 (Monday – Friday, 9:30am to 12-noon and 1pm to 5pm) or emailing [COVID-19@marincounty.org](mailto:COVID-19@marincounty.org).





**Sonoma  
Water**

## PRESS RELEASE

### FOR IMMEDIATE RELEASE

March 11, 2020

### CONTACT

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## Russian River Biological Opinion Meeting Postponed

**Healdsburg, CA** – The Public Policy Facilitating Committee (PPFC) annual meeting and tour scheduled for March 12, 2020 at the Healdsburg Community Center have been postponed due to concerns for public health and safety as the result of the COVID-19 novel coronavirus outbreak. The meeting and tour are both postponed. Sonoma Water will notify members of the committee and the public when a new date has been set for the meeting.

This year's gathering was scheduled as a joint meeting of the PPFC and the Dry Creek Habitat Enhancement Project Community Meeting. A tour of a Dry Creek habitat project site had been planned.

A Biological Opinion was released by National Marine Fisheries Service (NMFS) in September 2008. This 15-year plan requires Sonoma Water and the U.S. Army Corps of Engineers (USACE) to modify Russian River water supply and flood control operations to prevent harm to endangered coho salmon and threatened steelhead trout. The PPFC – comprised of elected and appointed officials from public agencies throughout the region – meets annually to review implementation of the Russian River Biological Opinion.



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# COAST GUARD HOUSING UPDATE



## Nonprofit Developer Selection for Coast Guard Site

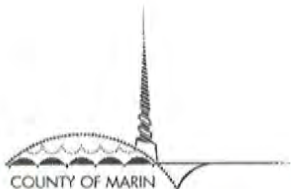
In December 2019, the County of Marin purchased the Coast Guard Property in Point Reyes Station for affordable housing or other public benefit purposes.

On November 20, 2019, the County issued a Request for Proposals and Statement of Qualifications (RFP) requesting proposals from nonprofit housing developers for the reuse of the former US Coast Guard facilities in Point Reyes Station. The site currently includes 36 townhomes, a barracks with 24 rooms, a dining hall and kitchen, and several ancillary buildings. By the close of the RFP submission deadline on January 21, 2020, two responses were received: one from EAH Housing, and a second from The Community Land Trust Association of West Marin (CLAM) and Eden Housing.

**On Tuesday, March 17, 2020 at 2:45 p.m. or thereafter,** the Marin County Board of Supervisors will review the RFP, received proposals, and feedback from the Selection Committee to finalize the selection of the nonprofit housing developer for this site. This meeting will take place at the Marin County Board of Supervisors Chambers, located at:

Marin County Civic Center, Board of Supervisors Chambers  
3501 Civic Center Drive, Room 330  
San Rafael, CA 94903

Visit <http://www.marincounty.org/coastguard> for more information.



Not all events are sponsored by the County of Marin. County of Marin sponsored events are required to be accessible. If you are an individual with a disability and require an accommodation to participate in a County sponsored event, please call (415) 473-4381 (voice), (415) 473-3232 (TTY), or dial 711 for CRS or email [Disability Access](#) at least five work days in advance. Documents in alternative formats are available upon request.



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## Public quiet on proposal to increase water rates

### NOVATO

By Will Houston

[whouston@marinij.com](mailto:whouston@marinij.com) @Will\_S\_Houston on Twitter

Despite outreach efforts, very few Novato area residents are weighing in on a complex proposal to raise water rates and service fees for thousands of residents, businesses and public agencies.

At the North Marin Water District board of directors' second workshop on the rate hikes this week, just one member of the public attended: Judy Holland of Novato. Holland was also one of six people who attended the first rate workshop on Feb. 11. The complexity of the rate proposal is why Holland said she went to the meetings.

"Coming to the meeting was helpful to me to understand my water bill and how things would work," Holland told the board at its Tuesday meeting in Novato. "I have enjoyed listening, even though I got lost."

District General Manager Drew McIntyre said the district has sent notifications through a mailer, emails and published notifications to the 18,000 account holders in the Novato service area that would be affected by the proposed changes. The district has also posted its recent rate study, a video of its Feb. 11 meeting and other materials on its website.

The lack of public response is continuing a trend. The 3.5% rate hike the district adopted in 2019 garnered 14 protest letters. Before that, the 4.5% hike in 2018 prompted 17 protest letters and a 5% increase in 2017 garnered 23 protest letters. Compare those to the nearly 56,000 residents in Novato, not counting the surrounding unincorporated area. A few support letters were also received in those years, according to McIntyre.

### PROPOSAL»PAGE 4

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#### Proposal

#### FROM PAGE 1

But district staff and consultants recognize the proposed changes this year are more difficult to understand for many people. To address this, the district created a water cost calculator on its website that would show customers how the changes would affect their bills. Overall, the district estimates most residential ratepayers would see an \$8 bump on their bimonthly bill, or \$96 a year, under a one-year rate increase.



Novato Unified School District assistant superintendent Yancy Hawkins said this week as one of the largest landowners in the area, it is aware and tracking the proposal.

“We understand that they have operational needs,” Hawkins said. “It’s one more increase in costs that aren’t really being covered by additional money that the state is going to provide us.”

The NMWD board plans to meet again at 6 p.m. Tuesday at its district headquarters at 999 Rush Creek Place, Novato, to decide whether it will proceed with a one-year or multiple year rate hike of up to five years. McIntyre is recommending the board proceed with a one-year increase as it has done in the past.

“I don’t see any reason to deviate from our historical practice that we do this on a year-to-year basis,” he told the board.

A final approval of any rate changes is set for June. The district is proposing the rate increases for several reasons including to meet rising operational costs; to nearly double its investment into repairing and replacing aging tanks, pipes, treatment facilities and other equipment; and to pay for renovations and expansion of its Novato administration building and laboratory. In total, the district seeks to pay for \$27.8 million in projects in the next five years.

In addition to the rate proposal, the board is also set to discuss a proposal to create a low-income rate tier at its Tuesday meeting.

The bulk of the district’s customers are residential. The district divides them into three tiers based on their water use with higher water users paying higher rates.

Currently, these rates are based on customers’ behavior, more specifically the average daily use during the month with the highest water use. Those who use more water than that average use get bumped into higher tiers.

Under the proposal, the district would base its rate tiers off of the supply of its water sources and how much it costs to deliver those water sources.

“There needs to be a cost basis for why you charge what you charge,” said Mark Hildebrand, owner of Hildebrand Consulting and the author of the district’s five-year water rate study. “There’s really no correlation between your cost and the way that customers behave.”

Part of that reasoning stems from a court decision in San Juan Capistrano in which a taxpayer group overturned the city’s rate structure that was based on penalizing large water consumers and rewarding those who conserved.

NMWD has two sources of water. About 74% of its supply comes from the Sonoma Water agency, with the agency set to increase its rates by 6.8% for NMWD in July 2020. The remainder is from the district’s Stafford Lake reservoir. Stafford Lake water is about 21% more expensive to deliver due to treatment and debt payment costs related to reservoir upgrades, the district says.

Higher water use places a greater demand on the district's water system, requiring the district to tap into its more expensive Stafford Lake water to meet the need. But as of now, the proportion of water being delivered to tiered customers is not syncing up with the source of the supply. For example, as of now, about 93% of residential ratepayers are in the lowest paying and lowest water using tier, Tier 1, who use up to 615 gallons per day. That customer percentage does not match up with proportion of the district's water supply that comes from Sonoma Water, which is 74%.

Under the proposal, the district would marry their water source supplies with the customers who draw on those sources. To achieve that, the thresholds to jump from a low-paying rate tier to a more expensive rate tier will be reduced. For Tier 1 ratepayers, which represent more than half of the Novato area customers, that threshold will drop from up to 615 gallons per day to just 262 gallons of water per day.

Chris DeGabriele, a Novato resident and former longtime general manager of the water district, said the district's methodology is clear, but said it will come with significant changes.

"So there's an awful lot (of ratepayers) that aren't going to be in Tier 1 anymore in enacting the new rate structure," DeGabriele told the board at the Feb. 11 workshop.

Under the proposal, Tier 1 customers rates would jump about 1% from \$5.42 per thousand gallons to \$5.50 per thousand gallons in July. Tier 2 customers, who would be customers using between 262 to 720 gallons per day, would pay actually pay less than before from \$8.64 per thousand gallons to \$6.23. However, customers who were once in Tier 1 could be moved to a higher tier.

Changes to commercial customers' rates are much simpler. Rates are seasonal, with higher rates charged in summer months. The district plans to change the summer months from June through October to July through September.

## **Marin reservoirs look good despite month's lack of rain**

### **WEATHER**

Records say Bay Area having driest February since 1864

**By Adrian Rodriguez**

*[arodriguez@marinij.com](mailto:arodriguez@marinij.com) @adrianrrodri on Twitter*

It's the driest February in the Bay Area in 156 years.

Federal officials say nearly a quarter of California is now under drought conditions. But as the unusually parched, hot month came to a close in Marin County, the Marin Municipal Water District reported Friday that its seven reservoirs are at 92.8% of capacity, down just about 2 % from the start of the month. That total equals 104.46% of the average water storage for late February.

"In terms of our water supply, we look at our collective reservoir storage numbers, and our storage levels are still looking good at about 93% of capacity, which is above the average for this period," said Jeanne Mariani-Belding, spokeswoman for the water district.

"But with the warmer weather ahead, it's important to remember to use water wisely and to adjust irrigation systems to use only what you need," she said. "Conserving water is one of our most effective tools in successfully navigating these dry periods, and (it) helps set the right course in sustainably managing our water resources."

If the month ends without a drop of rain, as is forecast, it will be the first time since 1864 — when the Civil War was raging and covered wagons roamed the American West — that San Francisco had no measurable rain in February, and very little rain in January, historically the two wettest months of the year.

And the news in the Sierra Nevada is just as grim. On Thursday, the snowpack, the source of one-third of California's water supply, was 46% of its historical average, down from 92% on New Year's Day, with no precipitation falling this month over key Sierra Nevada watersheds for the first time since records began in 1921.

When will it really rain next? Not until mid-March at the earliest, forecasters say.

"It's likely that this year we will not make up for the lack of rain," said Anna Schneider, a meteorologist with the National Weather Service, adding that the rainfall totals for the water year will likely sit well below par.

Altogether, 23.3% of the state is in "moderate drought" conditions — up from 9.5% last week, according to the U.S. Drought

## DROUGHT»PAGE 2



On a dry winter day tourists head to and from Battery Spencer overlooking the Golden Gate Bridge. A quarter of California is now under drought conditions.

SHERRY LAVARS — MARIN INDEPENDENT JOURNAL



Sean de Guzman of the California Department of Water Resources takes the snow survey near Echo Summit on Thursday.

RICH PEDRONCELLI — AP PHOTO

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### Drought

#### FROM PAGE [1](#)

Monitor, a weekly report issued by the National Oceanic and Atmospheric Administration, the U.S. Department of Agriculture and the University of Nebraska- Lincoln.

That's the most of any week in 13 months. Another 46.4% of California is now classified as "abnormally dry," including Marin County.

Sunny, dry weather, with temperatures in the 60s, is forecast for the weekend across Marin, with temperatures jumping about 5 degrees on Monday for about a week. Apart from a slight chance of sprinkles on Sunday, the next time significant showers are possible in the Bay Area is between March 9-11, when the longrange forecast shows a chance of rain, according to the weather service.

The culprit for the dry weather? A large ridge of high-pressure air, similar to the one that created much of the state's 2012- 2017 drought, that has set up off the West Coast and deflected storms to Washington state, southern Canada and Mexico that otherwise were on target to hit California.

Although Marin, is experiencing "abnormally dry" conditions with a significant chunk of the state in the "moderate drought" category, Schneider said, "I wouldn't panic just yet."

Because of wet winters last year and in 2018, the water levels in major reservoirs around the state are at near or above average, much like those in Marin County, Schneider said.

On Thursday, Shasta Lake, the state's largest reservoir, was 78% full — 107% of its historic average for late February. Lake Oroville was 64% full, or 92% of its historic average. And San Luis Reservoir near Los Banos was 70% full, or 83% of average for this time of year.

Plus, "a drought develops gradually over a longer period of time," Schneider said.

That's thanks to reservoir and groundwater storage, she said. It typically takes at least two years of dry winters for a major drought to emerge in California.

A wet winter next year could return conditions to normal. But the lack of rain this year is generating concerns about increased fire risk this summer and increasing the chances of major blazes, due to lower moisture levels in grasses, brush and trees.

"No matter what the conditions are, it's always a good idea to conserve water," Schneider said.

*The Bay Area News Group contributed to this report.*



## **Public Policy Facilitating Committee Annual Meeting and Dry Creek Project Community Meeting Agenda**

Please mark your calendars for the annual Public Policy Facilitating Committee (PPFC). **This year we will be combining the PPFC meeting with the annual Dry Creek Habitat Enhancement Project's Community Meeting.**

A tour of a Dry Creek Habitat Enhancement Project site along Dry Creek will precede the meeting starting at 2 p.m. We will meet at the Lake Sonoma Visitors Center at 2 p.m. for a very short drive to the site. If you plan to attend the tour, please wear sturdy shoes. Following the tour there will be an open house at the Healdsburg Community Center from 3:30-4 p.m. with posters, snacks and Sonoma Water staff on hand to answer questions.

### **Thursday, March 12, 2020**

- |                    |  |
|--------------------|--|
| <b>2-3 p.m.</b>    | Dry Creek Habitat Enhancement Project Site Visit<br>Meet at the Lake Sonoma Visitors Center                        |
| <b>3:30-4 p.m.</b> | Open House – refreshments and poster session<br>Healdsburg Community Center, 1557 Healdsburg Avenue,<br>Healdsburg |
| <b>4-6 p.m.</b>    | PPFC and Dry Creek Community Meeting, Healdsburg<br>Community Center   |

### **WELCOME & PPFC PANEL INTRODUCTIONS**

PPFC Chairman James Gore

### **BRIEF OVERVIEW OF 2019 PROJECTS & 2020 PREVIEW**

#### **Dry Creek Project Update**

David Manning, Sonoma Water Environmental Resources Manager  
Joel Flannery, U.S. Army Corps of Engineers

#### **Technical Paper: Flood Patterns and the Dry Creek Project**

David Manning, Sonoma Water Environmental Resources Manager  
Josh Epstein, Interfluve

#### **Estuary Management for Salmonids**

Jessica Martini-Lamb, Sonoma Water Environmental Resources Manager  
Josh Fuller, National Marine Fisheries Service

**Fish Habitat Flows & Water Rights Project Public Outreach**

Jessica Martini-Lamb, Sonoma Water Environmental Resources Manager  
Barry Dugan, Sonoma Water Principal Programs Specialist

**PUBLIC COMMENT  
ADJOURNMENT**

*For more information, please visit [www.sonomacountywater.org/rrfr](http://www.sonomacountywater.org/rrfr) or contact Barry Dugan at (707) 547-1930.*

*Disabled Accommodation: If you have a disability which requires an accommodation, an alternative format, or requires another person to assist you while attending this meeting, please contact the Sonoma County Water Agency at (707) 547-1930, as soon as possible to ensure arrangements for accommodation.*

**Barry Dugan**  
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[sonomacountywater.org](http://sonomacountywater.org)



Clean. Reliable. Essential. Every Day.



**Subject:** Press Release: Russian River Inflatable Dam Being Inflated Today



**Sonoma  
Water**

## PRESS RELEASE

**FOR IMMEDIATE RELEASE**

February 28, 2020

**CONTACT**

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## Russian River Inflatable Dam Being Inflated Today

**Santa Rosa, CA** – Due to a dry February and warm temperatures, the Sonoma County Water Agency (Sonoma Water) today began the process of inflating its rubber dam located in the Russian River near Forestville. The rubber dam is a critical component of the Russian River water supply system that provides naturally filtered drinking water to more than 600,000 residents in portions of Sonoma and Marin counties.

The rubber dam is typically inflated in spring or early summer when demand for potable water increases. A lack of measurable rainfall in February and warm temperatures have increased water demands earlier than usual and river flows remain relatively low.

When fully inflated, the rubber dam creates a small pool of water from which Sonoma Water draws water for use in four off-stream infiltration ponds. The infiltration ponds help recharge groundwater, which is naturally filtered through sand and gravel and delivered to Sonoma Water's customers.

The rubber dam is located just downstream of the Wohler Bridge on the Russian River. When the rubber dam is raised, permanent fish ladders provide fish passage and allow Sonoma Water to count the migration of adult salmon and steelhead with its underwater video system located in the fish ladders.

Boaters must portage around the rubber dam, located downstream of Wohler Bridge. Public notices will be posted around the rubber dam warning the public not to recreate on or near the dam. California Department of Fish and Wildlife regulations prohibit fishing within 250 feet of the upstream and downstream sides of the rubber dam.

With dry conditions and water demands increasing, Sonoma Water encourages residents to use water efficiently. Additional water conservation tips are available at the Sonoma Marin Water Saving Partnership website, [www.savingwaterpartnership.org/](http://www.savingwaterpartnership.org/)

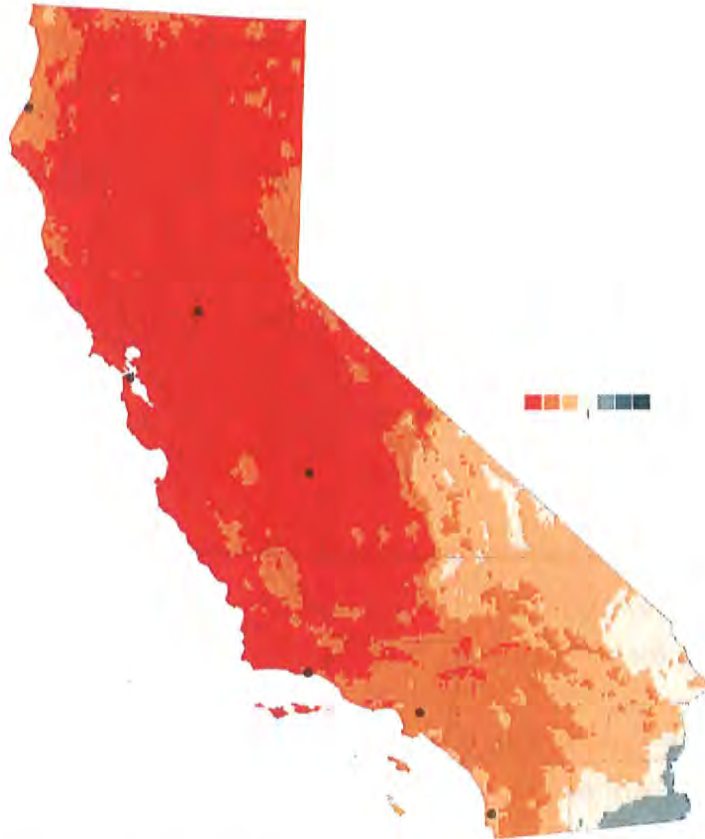
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*Sonoma Water provides water supply, flood protection and sanitation services for portions of Sonoma and Marin counties. Visit us on the Web at [www.sonomawater.org](http://www.sonomawater.org)*

**The New York Times**

# California Had Its Driest February on Record. Here's How Bad It Was.

By Kendra Pierre-Louis and Nadja Popovich March 3, 2020



Precipitation totals from Feb. 1 to March 1, 2020, are shown relative to average precipitation totals for the same period between 1979 and 2015. Source: Climate Mapper

Not a drop of rain fell in downtown San Francisco this February. Or in Big Sur State Park. Or in Paso Robles. February in California was so dry that it is raising concerns that the state, which, according to the National Drought Mitigation Center, only fully emerged from drought last March, may be headed for another one.

“It was the driest February on record,” said Daniel Swain, a climate scientist with the Institute of the Environment and Sustainability at the University of California, Los Angeles.

Ordinarily, 90 percent of California’s rain falls during the seven-month period between Oct. 1 and April 30, with half of the state’s total precipitation falling during December, January and February. The rains that come in February are part of a seasonal pattern that nourishes plants, replenishes reservoirs and, in the Sierra Nevada mountains, restores the snowpack that provides up to 30 percent of the state’s drinking water.

But this February “was not just merely a below average month,” Dr. Swain said. “It was, in a lot of places, a completely dry month, which is truly extraordinary.”

The lack of snow and rain in February comes after a January that was also drier than average, and a record dry autumn for much of Northern California. A series of storms dumped a considerable amount of snow in late December, raising hopes that this winter might proceed normally. But that now seems less likely.

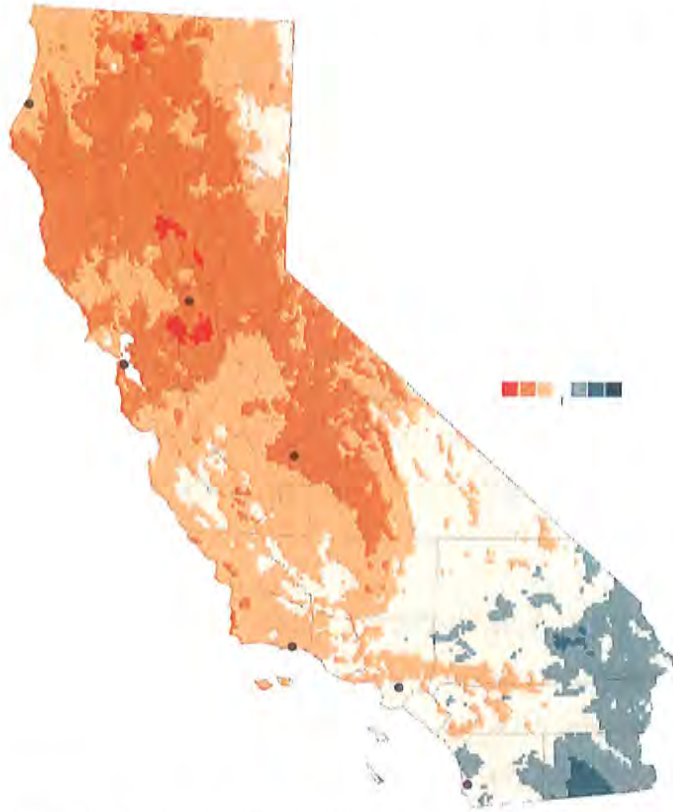
“There’s sort of this myth of the miracle March in California, which refers to a couple of specific years in which the winter was extremely dry and then March came along and there was just this unceasing deluge for a few weeks in a row,” Dr. Swain said.

In those years, the rainfall erased a large part of the water deficit. But this year has been so dry that the state would need record breaking rain and snow in the next few months to make up for the shortfall.

The United States Drought Monitor, a joint project by federal agencies, including the National Oceanic and Atmospheric Administration and the Department of Agriculture, releases drought maps weekly. They currently show much of the state as either abnormally dry or in moderate drought.

As of March 1, according to the California Department of Water Resources, the state’s snowpack was 44 percent of normal. In the Southern Sierras, the percentage was only 40 percent.

**The state had a very dry winter and a dry autumn, too.**



Precipitation totals from Oct. 1, 2019 to Mar. 1, 2020, are shown relative to average precipitation totals for the same period between 1979 and 2015. Source: Climate Mapper

The lack of moisture is coming at a time when the state needs more water, not less. January and February weren't just unusually dry, they were also unusually warm. On Feb. 27, for example, the temperature at the Los Angeles International Airport hit 85 degrees Fahrenheit, or about 29 Celsius, breaking a record of 83 degrees Fahrenheit that was set in 1992.

"In recent weeks there have actually been a number of days with spring or even summer-like temperatures in the 70s and 80s throughout a lot of California, which were daily record high temperatures for a portion of February," Dr. Swain said.

The hotter temperatures, which are associated with climate change, dry out soil, making moisture less available to plants and increasing wildfire risk. The state has



already seen an uptick in reported fires, according to The California Department of Forestry and Fire Protection, or CalFire, which responds to reports of wildfires.

Between Jan. 1 and March 1, the agency has “responded to 381 of those calls already,” Scott McLean, Cal Fire’s deputy chief of communications, said. Last year over the same time period, it responded to 105 reports. Over the past five years, the average number of wildfire reports during the first two months of the year was 279 calls, putting this year at roughly 35 percent above average.

It is too soon to tell what this will mean once summer hits, “but this is a group effort by everybody in the state of California to be prepared,” Mr. McLean said. The department is educating residents on fire risk, including maintaining space around their properties that firefighters can use to defend against fire, and sending out firefighters to reduce dead brush or overgrown plants that could easily ignite, as well as preparing firefighting equipment.

But increasingly, those preparations may need to take the long view. There’s growing evidence that, in a warming world, the state’s overall levels of precipitation won’t decline but the distribution of precipitation will change. That is: the drier years will be drier, and the wetter years will be wetter and the state will need to find ways to cope.

“Portions of California have experienced both their driest years on record and their wettest years on record in the past 10 years,” Dr. Swain said.

And California is not the only state in the region facing these sorts of issues. The United States Drought Monitor is also showing that much of Oregon, Washington State and Nevada are also currently experiencing abnormally dry conditions.

## **NMWD set to adopt one-year rate hike**

### **NOVATO AREA**

Vote planned in June; more increases likely

**By Will Houston**

*[whouston@marinij.com](mailto:whouston@marinij.com) @Will\_S\_Houston on Twitter*

The North Marin Water District plans to proceed with a one year water rate hike for Novato area residents, businesses, schools and government agencies that will be put to a final vote in June.

The district typically adopts rate hikes in one-year increments, but the complexity of the proposed rate changes also factored into the decision, according to staff.

“Having a one-year rate increase helps make the messaging more straightforward,” McIntyre said.

The board is set to vote on the rate proposal at a June 16 public hearing. The rates would take effect July 1.

The rate changes would not affect West Marin ratepayers. Rate changes for West Marin are expected to be considered in the 2020-2021 fiscal year.

Ratepayers can expect subsequent rate increases in the coming years. A five-year rate plan adopted by the board last month would seek to implement 6% rate increases in July 2021 and July 2022 and then 5% rate increases in July 2023 and July 2024.

“It could be that or less depending on any changes that happen between now and each actual individual year,” McIntyre said.

**NMWD»PAGE 2**

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## **NMWD**

### **FROM PAGE 1**

The five-year financial plan calls for rate increases to cover rising operation costs and to pay for \$27.8 million in projects. The projects include \$15.2 million for accessibility upgrades to the district's administrative building and doubling the size of its testing laboratory; \$6.8 million to replace pipelines that are as much as 70 years old; \$650,000 for improving pipe leaks and rust detection; \$163,000 for new asset management software; and \$3.8 million to construct and increase capacity of water storage tanks to respond to fire risks.

Similar to what Marin Municipal Water District did last year with its new capital maintenance fee, the NMWD rate increases seek to pay for these projects using cash rather than issuing bonds that would accumulate interest over time.

"The district is trying to position itself financially to be able to pay for more of its expenses with cash instead of paying for debt," Mark Hildebrand, a consultant who drafted the district's rate plan, told the district board in late February.

The district reports that its operating costs have increased by an average of 6.3% in the past four years, which it attributes to water delivery rate increases of between 5 to 6% charged by the Sonoma Water agency. Sonoma Water provides about 74% of NMWD's supply and is set to increase its rates again in July by about 6.8%.

If NMWD's rate increases are not adopted, the district's \$10 million reserve fund would be depleted by 2024, according to Hildebrand.

There has been minimal public response to the rate proposal, continuing a trend in recent years.

Indian Valley resident Kim Vogee said while she understands the district's rationale behind the rate hike, she feels that every rate hike so far has been inevitable.

"I've written (to the district) before and it didn't make any difference multiple times when they have done this," she said.

Living on a one-acre property with her husband, three dogs and five horses, Vogee said her water bimonthly bills range from \$175 to \$285 depending on the time of year.

"The reality is everything is going up. Except the taxes, because I voted no on everything," Vogee said, referring to recent defeat of several tax measures on the March 3 ballot.

### **Low-income help**

To reduce the cost burden on low-income ratepayers, the district board voted unanimously on Tuesday to adopt a \$15 discount for low-income single-family households on their bimonthly water bills effective July 1.



The discount will be given to ratepayers who show proof that they're already enrolled in PG& E's low-income rate program, California Alternate Rates for Energy. The district estimates 800 customers would be eligible. Eligibility is based on the annual gross income and the number of people within a household. For example, a one- or twoperson household with a total income of \$33,820 or less or a four-person household making \$51,500 or less would qualify.

To apply, ratepayers would have to submit an application and provide a copy of their most recent PG& E bill to the district's billing department. Ratepayers would have to renew their application every two years and would be required to inform the district if their income level changes. The program is being paid for using \$85,000 in projected revenue from property leases and other non-rate revenue, McIntyre said.

Cheryl Paddack, chief executive officer of North Marin Community Services, said the organization has been working to provide rental assistance and financial management aid to low-income residents, including referring them to PG& E's CARE program.

"Due to the high cost of rent in Marin County, some of the families we serve spend over 70% of their household income on rent," Paddack wrote in an email. "A break on their North Marin Water District utility bill will be a great help for these working families."

### **Hikes explained**

While subsequent rate increases would be more uniform, the proposed firstyear increase is much more complex.

To help customers determine how the changes would affect them, the district set up a rate calculator that can be found online at [bit.ly/2Ts3I8A](https://bit.ly/2Ts3I8A).

The district is proposing to overhaul both its residential and commercial rate structures. Residential customers are divided into three tiers based on their water use, with higher water users paying higher rates. Under the proposal, the district proposes lowering the water use thresholds that would bump a ratepayer into a higher-paying tier. As a result, some customers in lower paying tiers may find themselves paying more on their bimonthly water bills, and vice versa.

Overall, the district estimates most of these customers will only see an \$8 increase on their bimonthly bills, or \$96 per year.

Under the changes, Tier 1 customers who use up to 262 gallons per day will be charged a 1.5% increase to \$5.50 per thousand gallons; Tier 2 customers who use between 262 to 720 gallons per day will be charged \$6.23 per thousand gallons, a 27.9% reduction from the current Tier 2 rate of \$8.64; and Tier 3 customers who use more than 720 gallons per day will be charged \$7.67 per thousand gallons, a 49% reduction from the current \$15.05 rate. While there are rate reductions in Tier 2 and Tier 3, the threshold to be bumped into these tiers has been lowered.

About 19,100 residential accounts would be affected by the change.

Commercial rates are based on the time of year, with summer rates higher than winter rates. NMWD is proposing to shorten the summer month range from the five months of June through October to three months of July through September. Winter rates are proposed to decrease from \$5.97 to \$5.50 per thousand gallons and summer rates are set to increase from \$6.42 to \$7.67 per thousand gallons starting July 1.

About 1,210 commercial accounts would be affected.

The district is also proposing to raise its raw and recycled water rates as well as its bimonthly service charge.

## **Bill: Churches, hospitals could build homes**

### **AFFORDABLE UNITS**

**By Hannah Wiley**

*The Sacramento Bee*

A San Francisco Democrat unveiled legislation this week to let religious groups and nonprofit hospitals use excess land and parking lots for affordable housing projects.

Senate Bill 899 would permit those organizations and their partnered developers to work around local zoning rules that often limit or block affordable projects.

The proposed law would also streamline construction to minimize the time it takes and money needed to build the homes. To qualify, all of the units in a project would have to be designated as affordable housing, and the faith-based or hospital affiliate would have to commit to keeping rents in that range for 45 to 55 years.

Hospitals and churches could skirt the red tape in residential areas as long as the building doesn't exceed 40 units and three stories. That limit expands to 150 homes and five stories in commercial and mixed-use regions.

Sen. Scott Wiener, D-San Francisco, argued during a Friday press conference in his city that California is facing an "emergency" spawned by a "massive shortage of every conceivable type of housing."

"We have an obligation to make sure everyone has access to housing," Wiener said. "SB 899 offers a creative approach to this crisis."

Many churches and nonprofit hospitals already have in mind surplus land and parking space that could be better used for homes, Wiener he said. The legislation would place them in a better position to leverage underused or overlooked assets for the people

they already serve.

"There is great precedence for this. But you've got to have vision," said Rev. Arnold Townsend, vice-president of San Francisco's NAACP. Townsend said religious organizations also suffer from the lack of affordability that's forced low-income residents out of California or the city and into other states or regions.

"The people who volunteer, the people who donate, are no longer in the city," Townsend said. "So, then everybody begins to suffer to a greater degree. It's absolutely essential that people support this effort."

Gov. Gavin Newsom tasked lawmakers during his Feb. 19 State of the State address with delivering housing ideas that spur construction.

Newsom set an ambitious goal during his 2018 campaign to build 3.5 million new homes by 2025, a target that requires 500,000 units per year.

Lawmakers this year have introduced measures to cut development fees, asked for ongoing billions in the state budget to battle homelessness and expanded a Los Angeles-area law that skips environmental review for emergency and supportive housing projects to apply statewide.

## **Marin rainfall 66% below average for date**

### **WEATHER**

*Bay Area News Group*

Marin County is now officially in abnormally dry conditions, but unlike much of the Bay Area it has not slipped into a moderate drought, according to the U.S. Drought Monitor.

The latest report — a weekly analysis by the National Oceanic and Atmospheric Administration, the U.S. Department of Agriculture and the University of Nebraska-Lincoln — places 48% of California in the moderate drought category, up from 34% a week ago.

The report, which monitors a range of indicators, places about 30% of California in the abnormally dry category, the least severe of five classifications. Marin was classified as normal as recently as four weeks ago.

The Marin Municipal Water District reported 27.88 inches of rain at Lake Lagunitas from July

**RAINFALL » [PAGE6](#)**



Highway 1 traffic flows under a fog bank Thursday morning in Santa Cruz County. Forecasters expect rain and colder weather throughout the Bay Area on Saturday, Sunday and Monday.

SHMUEL THALER — SANTA CRUZ SENTINEL

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## **Rainfall**

### **FROM PAGE 1**

1 through Tuesday. That is 32.45 inches less than last year and about 66% below average for the date.

There is some hope in the forecast, however. Cooler, wetter conditions are expected this weekend across the Bay Area. And a significant snow storm is heading toward the Sierra, where the National Weather Service has issued a winter storm watch from 11 a.m. Saturday until 11 a.m. Monday, with wind gusts of up to 60 mph. and snow levels down to 2,000 feet.

“There will be major delays, chain controls and likely road closures in the mountains due to whiteout conditions,” said Idamis Del Valle, a meteorologist with the National Weather Service in Sacramento. “We’re not advising people to travel on Sunday.”

The storm is expected to dump 1 to 2 feet of new snow in the Lake Tahoe area this weekend, with 3 to 4 feet at higher elevations in the Sierra, like Sonora Pass, Ebbetts Pass and Carson Pass.

That would make it the biggest snow storm in California in three months, since Dec. 5, when roughly 3 feet fell in some Sierra locations.

Skiers heading to Lake Tahoe this weekend should leave Friday, and no later than early Saturday morning, she said. Getting back to the Bay Area will be difficult until Monday.

A persistent ridge of high pressure that has blocked storms all winter from hitting California is breaking down, at least for a while, allowing the weekend rain and snow to move in from the Gulf of Alaska.

While not as dramatic as the Sierra forecast, rain is expected to arrive in the Bay Area on Saturday, Sunday and Monday, forecasters say. Totals are expected to be modest, ranging from a quarter inch to three-quarters of an inch in most Bay Area cities, with up to 1.5 inches in the hills, ridges and peaks across the region. Colder temperatures also could bring some snow to the Bay Area’s highest peaks.

“Any precipitation postpones fire season,” said Jan Null, a meteorologist with Golden Gate Weather Services in Half Moon Bay. “I don’t think the amounts are going to move the needle much in terms of water supply impact. Soils are awful dry right now. Everything is soaking in.”

Luckily for California’s water supply, because of a wet winter last year and the year before, reservoirs across the state continue to hold a significant amount of water, which will help reduce the risk of shortages this year.

On Wednesday, Shasta Lake, the state's largest reservoir, was 77% full — 102% of its historic average for late February. Lake Oroville was 64% full, or 88% of its historic average. And San Luis Reservoir near Los Banos was 69%

full, or 79% of average for this time of year.

The unusually dry conditions, however, are generating concern that if dry conditions continue next winter, California may be heading toward another drought crisis, not unlike the five-year drought it experienced recently. And the dry winter this year likely means a summer with high fire danger.

The Sierra Nevada snowpack, the source of onethird of California's water, on Wednesday was just 38% of its historical average — down from 92% on New Year's Day.

"This storm could certainly bump up the numbers, but we're still below average," said Del Valle. "It's been extremely dry."

Cities across California are 5 to 10 inches under seasonal rainfall averages, a deficit that would require 15-20 more storms like the one expected this weekend to get back to normal.

Since Oct. 1, San Jose had received just 4.1 inches of rain through Wednesday night, or 34% of its historical average for that date. Oakland was at 36%, with 5.8 inches. And San Francisco was at 47% of normal, with 9 inches.

Light rain last Friday and Saturday snapped a 37-day winter dry spell in San Francisco, the fourth longest consecutive streak without winter rain in that city since the Gold Rush in 1850 when modern records first began. But only about two-tenths of an inch fell overall.

What about a "Miracle March" with late, drenching Pineapple Express storms that could bring rain totals back near normal? Not likely, if history is any guide.

San Francisco, a barometer for broader Bay Area weather trends because it has the longest set of weather records, has experienced 18 years since 1850 when February rain totals were unusually dry — below half an inch. And in those years, only six times did March end up with above-normal rainfall, according to a recent analysis by Null.

"I've heard people say we've had a dry February, so that means a wet March," Null said. "But if you look at the numbers that's not true. Two times out of three we end up below normal."

The upcoming storms and some that are possible next week, if they come through, should bring about 1 to 1.5 inches to the Bay Area, Null said. That would bump San Jose and Oakland's seasonal rainfall totals up to about 40% of normal, and San Francisco's to about 50%. But these storms from Alaska aren't the atmospheric river "Pineapple Express" variety that can quickly send rainfall totals soaring — and which are nowhere in the forecast.

"This is not the type of pattern we want," he said. "We want something from the west with a lot of tropical moisture. That's the key."