



NOTICE OF THE BOARD OF DIRECTORS' REGULAR BI-MONTHLY MEETING

Tuesday, September 17, 2024 at 5:30 PM

AGENDA

LOCATIONS:

Open Session to start at or after 6:30 p.m.

Marin Water Board Room – 220 Nellen Avenue, Corte Madera, CA 94925

Closed Session begins at 5:30 p.m.

Marin Water Mt. Tam Conference Room, 220 Nellen Avenue, Corte Madera, CA 94925

Public Participation:

The public may attend this meeting in-person or remotely using one of the following methods:

On a computer or smart device, go to: <https://marinwater.zoom.us/j/88134852296>

By phone, dial: **1-669-444-9171** and use Webinar ID: **881 3485 2296**

HOW TO PROVIDE PUBLIC COMMENT:

During the Meeting: Typically, you will have 3 minutes to make your public comment, however, the board president may shorten the amount of time for public comment due to a large number of attendees. Furthermore, pursuant to Government Code, section 54954.2 (the Brown Act), the Board may not take action or discuss any item that does not appear on the agenda.

-- **In-Person Attendee:** Fill out a speaker card and provide to the board secretary. List the number/letter (ex: 6a) of the agenda item(s), for which you would like to provide a comment. Once you're called, proceed to the lectern to make your comment.

-- **Remote Attendee:** Use the "raise hand" button on the bottom of the Zoom screen. If you are joining by phone and would like to comment, press *9. The board secretary will use the last four digits of your phone number to call on you (dial *6 to mute/unmute).

In Advance of the Meeting: Submit your comments by email in advance of the meeting to boardcomment@marinwater.org. To ensure that your comment is provided to the Board of Directors prior to the meeting, please email your comment 24 hours in advance of the meeting start time. Comments received after this cut off time will be sent to the Board after the meeting. Please do not include personal information in your comment such as phone numbers and home addresses.

AGENDA ITEMS:

- 1. Call to Order and Roll Call**
- 2. Adoption of Agenda**
- 3. Announcement of Closed Session Item(s); Public Comments on Closed Session Item(s)**

Following announcement of Closed Session items and prior to recess into Closed Session, the public may speak up to three minutes on items to be addressed in Closed Session. The Board will convene to Closed Session in the Mt. Tam Conference Room after public comment.

a. Public Employee Performance Evaluation

(Government Code §54957)

Title: General Manager

b. Conference with Legal Counsel - Pending Litigation

(Government Code §54956.9)

Villavicencio v. Marin Municipal Water District

Workers Compensation Appeals Board No. ADJ12878288

Adjourn closed session and reconvene to open session in the Board Room and via Zoom.

- 4. Reconvene to Open Session; Closed Session Report Out**
- 5. Public Comment on Non-Agenda Matters**

This is the time when any person may address the Board of Directors on matters not listed on this agenda, but which are within the subject matter jurisdiction of the Board.

- 6. Directors' and General Manager's Announcements (6:40 p.m. – Time Approximate)**
- 7. Board Committee Reports**

Each Committee Chair or Vice Chair will provide a report on recent committee meetings. Directors may ask questions or provide brief comments or requests for additional information on an item.

- 8. Consent Items (6:50 p.m. – Time Approximate)**

All Consent Items will be enacted by a single action of the Board, unless specific items are pulled from Consent by the Board during adoption of the agenda for separate discussion and action.

a. Minutes of the Board of Directors' Regular Bi-Monthly Meeting on September 3, 2024

RECOMMENDATION: Approve the minutes

b. General Manager's Report August 2024

RECOMMENDATION: Approve Report

- 9. Public Hearing Item (6:55 p.m. – Time Approximate)**

a. Ordinance No. 466 Establishing Turf Limits and Updating the District Fixture Standards

RECOMMENDATION: Hold a Public Hearing pursuant to California Water Code section 375; and, Adopt Ordinance No. 466 Establishing Turf Limits and Updating the District's Fixture Standards

10. Regular Items (7:30 p.m. – Time Approximate)

- a.** Amendment No. 4 to Professional Services Agreement MA-5963 with Woodward & Curran, Inc. for Engineering Services During Construction and Final Design Services of Phase II of the Pine Mountain Tunnel Tanks Replacement Project

RECOMMENDATION: Approve, and authorize the General Manager to execute Amendment No. 4 to Professional Service Agreement No. 5963 with Woodward & Curran, for engineering services during construction for Phase II and for Design Services to complete plans, specifications and estimate for Phase II of the Pine Mountain Tanks Replacement Project (D21043) in the amount of \$450,015

11. Future Board and Committee Meetings and Upcoming Agenda Items

This schedule lists upcoming board and committee meetings as well as upcoming agenda items for the next month, which may include Board interest in adding future meeting items. The schedule is tentative and subject to change pending final publication and posting of the meeting agendas.

- a.** Upcoming Meetings

12. Announcement of Closed Session Item(s); Public Comments on Closed Session Item(s) - None.

13. Reconvene to Open Session; Closed Session Report Out - Not applicable.

14. Adjournment (8:00 p.m. – Time Approximate)

ADA NOTICE AND HEARING-IMPAIRED PROVISIONS

In accordance with the Americans with Disabilities Act (ADA) and California Law, it is Marin Water’s policy to offer its public programs, services, and meetings in a manner that is readily accessible to everyone, including those with disabilities. If you are an individual with a disability and require a copy of a public hearing notice, an agenda, and/or agenda packet in an appropriate alternative format, or if you require other accommodations, please contact the Board Secretary/ADA Coordinator at 415.945.1448, at least two business days in advance of the meeting. Advance notification will enable Marin Water to make reasonable arrangements to ensure accessibility.

Information agendas are available for review at the Civic Center Library, Corte Madera Library, Fairfax Library, Mill Valley Library, Marin Water Administration Building, and marinwater.org.

Posted: 09-13-2024



NOTICE OF THE BOARD OF DIRECTORS' REGULAR BI-MONTHLY MEETING

Tuesday, September 03, 2024 at 6:30 PM

MINUTES

LOCATIONS:

Open Session to start at or after 6:30 p.m.

Marin Water Board Room – 220 Nellen Avenue, Corte Madera, CA 94925

Outside location for Director Jed Smith - The Hotel Diplomat, Business Center, Strandvagen 7c, Stockholm, 114 56 Sweden

Outside location for Director Larry Russell - Red Hawk Resort, Business Center, 1 Red Hawk Parkway, Placerville, CA 95667

Public Participation:

The public attended this meeting in-person or remotely using one of the following methods: on a computer or smart device, <https://marinwater.zoom.us/j/88134852296>, or by phone, 1-669-444-9171 using Webinar ID #: 881 3485 2296.

AGENDA ITEMS:

1. Call to Order and Roll Call

President Ranjiv Khush called the meeting to order at 6:30 p.m.

DIRECTORS PRESENT

Larry Russell
Monty Schmitt
Jed Smith
Matt Samson
Ranjiv Khush

2. Adoption of Agenda

A motion was made by Vice President Samson and seconded by Director Schmitt to adopt the agenda.

There were no public comments.

Voting Yea: Directors Russell, Schmitt, Smith, Samson, and Khush

- 3. **Announcement of Closed Session Item(s); Public Comments on Closed Session Item(s) - None.**
- 4. **Reconvene to Open Session; Closed Session Report Out - Not applicable.**
- 5. **Public Comment on Non-Agenda Matters**

There were three (3) public comments.

6. **Directors' and General Manager's Announcements**

- Director Russell reported that he attended the International Water Association Conference in August.
- Vice President Samson reported that he attended the Tomales Bay Foundation Meeting last month.
- President Khush praised District staff for the work performed at the Fairfax Manor Pump Station.
- General Manager Ben Horenstein provided an update on the Nicasio Spillway Modifications and Phoenix-Bon Tempe Connection Projects indicating that the District would focus on the Nicasio Spillway Modifications, which would create an additional 3000 acre feet of water storage.

7. **Board Committee Reports**

- Director Russell highlighted agenda items that were presented at the Operations Committee Meeting on August 16.
- Director Smith reported on agenda items that were presented at the Communications & Water Efficiency Committee Meeting on August 21 and at the Finance & Administration Committee Meeting on August 22.

8. **Consent Items**

- a. Minutes of the Board of Directors' Regular Bi-Monthly Meeting on August 6, 2024
RECOMMENDATION: Approve the minutes
- b. General Manager's Report July 2024
RECOMMENDATION: Approve Report
- c. Award of Contract No. 2010 - Fire Flow Improvement Program - Rock Ridge Pipeline Replacement Project (F22001)

RECOMMENDATION: Approve a resolution authorizing award of Contract No. 2010 FIRE FLOW Improvement Program Rock Ridge Pipeline Replacement Project, to W.R. Forde Associates in the amount of \$2,843,105 (*Resolution No. 8788*)

d. Watershed Roads and Trails Contract No. 1981 Amendment No. 1

RECOMMENDATION: Approve Amendment No. 1 to Watershed Roads and Trails Contract No. 1981 with Piazza Construction

e. Approve Amended Conflict of Interest Code

RECOMMENDATION: Adopt a resolution amending the Conflict of Interest Code of the Marin Municipal Water District (*Resolution No. 8789*)

f. Award of Two Professional Services Agreements for Geotechnical Engineering and Field and Laboratory Materials Testing Services

RECOMMENDATION: Authorize the General Manager to execute two professional services agreements with Miller Pacific Engineering Group and RGH Consultants for on-call “as-needed” geotechnical engineering and field and laboratory materials testing services, with each contract in an amount not to exceed \$500,000

A motion was made by Director Schmitt and seconded by Vice President Samson to approve the Consent Calendar.

There were no public comments.

Voting Yea: Directors Russell, Schmitt, Smith, Samson, and Khush

9. Regular Items

a. Hind Tanks Replacement Project Land Exchange and Project Approval

RECOMMENDATION: 1) Authorize the Board President to execute an amendment to the Land Exchange Agreement for the Hind Tanks Replacement Project and authorize the General Manger to proceed with the land exchange of new tank site barring any legal challenge to the project under the California Environmental Quality Act, 2) Approve the Hind Tanks Replacement Project, and 3) Direct staff to file Notice of Exemption

Engineering Director Alex Anaya introduced Engineering Planning Manager Elysha Irish, who presented this item.

Discussion followed.

There were no public comments.

A motion was made by Director Schmitt and seconded by Vice President Samson to approve authorizing the Board President to execute an amendment to the Land Exchange Agreement and authorize the the general manager to proceed with the land exchange of new tank site, approve the Hinds Tank Replacement Project, and direct staff to file a Notice of Exemption.

Voting Yea: Directors Russell, Schmitt, Smith, Samson, and Khush

b. Watershed Trail Sharing Pilot Program & E-Bike Class I Trial

RECOMMENDATION: Adopt, pursuant to exemptions from the California Environmental Quality Act, Ordinance No. 465 Updating the District Code to Allow for Trial/Pilot Programs to be adopted by the Board of Directors by resolution; and, approve resolutions for an E-Bike Class I Trial and Watershed Trail Sharing Pilot Program (*Resolution Nos. 8790 & 8791*)

Watershed Resources Director Shaun Horne, Chief Park Ranger Don Wick, Natural Resources Program Manager Carl Sanders, and Senior Ecologist Sherry Adams presented this item.

Discussion ensued with the directors providing feedback.

There were 45 public comments.

A motion was made by Vice President Samson and seconded by Director Smith to adopt Ordinance No. 465 to allow Trial/Pilot Programs be adopted by the Board of Directors by resolution, to approve Resolution No. 8790 adopting the Watershed Trail Sharing Pilot Program and Resolution No. 8791 adopting the E-Bike Class I Trail Program.

Voting Yea: Directors Russell, Schmitt, Smith, Samson, and Khush

10. Future Board and Committee Meetings and Upcoming Agenda Items

a. Upcoming Meetings

The Board Secretary announced internal meetings scheduled in September.

11. Announcement of Closed Session Item(s); Public Comments on Closed Session Item(s) - None.

12. Reconvene to Open Session; Closed Session Report Out - Not applicable.

13. Adjournment

There being no further business, the Board of Directors' Regular Bi-Monthly Meeting adjourned on September 3, 2024 at 9:33 p.m.

Board Secretary



STAFF REPORT

Meeting Type: Board of Directors
Title: General Manager’s Report August 2024
From: Ben Horenstein, General Manager
Meeting Date: September 17, 2024

TYPE OF ACTION: X Action Information Review and Refer

RECOMMENDATION: Approve Report

SUMMARY:

A. HIGHLIGHTS:

- The daily average net production for the month of August 2024 was 25.9 MGD compared to 25.7 MGD for the month of August 2023. Typical usage for August is 31.9 MGD.
- The daily average flow from Sonoma County Water Agency for the month of August 2024 was 9.2 MGD compared to 12.0 MGD for the month of August 2023.
- District consultant team have completed the field work for the spillway condition assessment on Soulajule, Seeger (Nicasio), Peters (Kent) and Bon Tempe Spillways to identify structural and drainage issues on the spillways. Preliminary indications have identified minor spillway sub-drain issues (clogged drains) but no structural integrity issues which serves to reassure that the these spillway are safe for continued operation.
- Staff responded to 1,362 underground service alert tickets and marked out approximately 42,771 feet (over 8 miles) of pipe in the month of August, ensuring that the Districts underground water infrastructure is not damaged by contractors or homeowners during excavation work.
- A construction accident at the Fairfax Manor First Lift Pump required an alternate means to pump water into the system. On Tuesday August 27, staff was able to switch power sources from a diesel generator to PG&E line connection. This switch eliminates fumes and noise from running a diesel powered generator.
- The District continued with Year 6 of the BFFIP plan in August 2024. Veg work ramped up in August following the end of bird nest season and included roadside brushing in the 5 Corners Area, Grazing along Sky Oaks Rd, and Doug Fir Thinning projects near Potrero Meadow and Lower Lag Rock Springs Rd.

- District coordinated multiple PG&E projects ranging from hardware repairs to vegetation clearing under lines. PG&E vegetation work is scheduled to occur under nearly every transmission and distribution line on the watershed.
- Conducted site visit with Marin County Fire Department to review watershed prescribed burn plans in an effort to coordinate around implementation priorities.
- Staff supported the One Tam site visits for media outlets relating to the rare San Francisco leaf-cutter bee that was recently discovered on the watershed.
- Staff continued to support construction and monitoring of the Lagunitas Creek restoration project. The District assisted with a multi-day fish rescue/relocation effort to prepare the sites for in-stream work. Construction of habitat features and gravel additions at Sites 4 and 5 are currently underway. The District is providing a daily onsite biological monitor for permit compliance.

MARIN WATER GRANT STATUS

PROJECT DETAILS						REQUIREMENTS	BUDGET		
OPPORTUNITY	FUNDER	FUNDER PRIORITIES	AGREEMENT APPLICATION DATE	MATCHING PROJECT	DESCRIPTION	STATUS	PREREQUISITE	FUNDS REQUESTED	MATCH REQUIREMENT %
CURRENT GRANTS									
Prop.1.Round 2 IRWM Disadvantaged Community Forestry Corps	DWR CCNB	Water Infrastructure Vegetation Management	12/1/22 Jan 2023	Marin City/San Rafael Infrastructure Ongoing Forestry work	Replacing aging transmission lines and laterals in Marin City and San Rafael's Canal District Workforce development; state funding directly to CCNB to fund crews working on the watershed	Funded Funded	IRWMCC Approval Corps Partnership	\$6,500,000 \$500,000	0 0
Fisheries Restoration Grant Program	CDFW	Fisheries	4/20/23	Lagunitas Creek Restoration	Funding for Phase II site design and CEQA	Funded	30% designs	\$600,000	50%
Lagunitas Creek Salmonid Spawning Gravel Improvement Project	DWR Riverine	Fisheries	1/1/22	Lagunitas Creek Restoration	Gravel augmentation for Lagunitas Creek	Funded	None	\$590,000	0
Lagunitas Creek Salmonid Spawning Gravel Improvement Project	USBR Environmental Restoration Project	Fisheries	8/17/23	Lagunitas Creek Restoration	Gravel augmentation for Lagunitas Creek Sites 1-3	Funded	CEQA	\$1,400,000	39.39%
Rain Water Harvesting Project	MCSTOPP	Conservation	Unknown	Conservation	Barells for customers	Funded	None	\$15,032	0
Urban Multi-Benefit Drought Relief	DWR	Water Resources	3/19/22	SWSA	Strategic Water Supply	Funded	None	\$2,000,000	0
Water Conservation	USBR WEEG	Conservation		Conservation		Funded		\$722,925	
Water Conservation	DWR IRWMP	Conservation		Conservation		Funded		\$222,477	
Prop 1. Fisheries Restoration	CDFW	Fisheries	7/1/23	Lagunitas Creek Restoration	Lagunitas Creek Restoration Sites 1-6	Funded	60% designs	\$4,600,000	0
CA Division of Boating & Waterways	NRA	Water Quality	7/1/23	Reservoir Water Quality	Monitor and prevent infestation of quagga and zebra mussels	Funded	NA	\$86,800	0
Azalea Hill Trail Restoration	State Parks	Trail Restoration	2/1/20	Watershed	Azalea Hill Restoration	Funded	None	\$952,657	0
One Tam Forest Health Strategy	CA WCB	Forestry Restoration	11/21/23	BFFIP Implementation	BFFIP Implementation for 2-3 years	Funded	CEQA	\$2,800,000	0
WaterSMART Applied Science	USBR	Water Resource	10/15/2023	Advanced Weather Modeling	Funding for weather modeling to inform water resources management	Funded	TBD	\$150,628.00	50%
One Tam Forest Health Phase II	Cal Fire	Forestry Restoration	1/15/2024	BFFIP Implementation	BFFIP Implementation for 2-3 years	Notice of Award	CEQA	\$3,000,000	TBD
								TOTAL FUNDED:	\$24,140,519
Desal Feasibility Study	USBR	Desalination	2/28/23	Desalination	Exploring new brackish desal in Petaluma	Open	None	\$200,000	50
Hazard Mitigation Program	CalOES/ FEMA	Natural Hazards	Aug-24	Treatment Plant Clarifiers	Funds to address seismic hazards in water treatment facilities	Open	NOI APPROVAL	\$22,000,000.00	25%
WaterSmart Energy Efficiency	USBR	Conservation	2/22/2024	AMI	Funding to expand AMI	Open	Environmental Compliance	\$1,000,000	50%
WaterSMART Planning & Design	USBR	Water Supply	5/20/2024	Water Supply Planning	Water Supply - Nicasio Spillway	Open	TBD	\$400,000.00	
Environmental Resources Grant	USBR	Forest Health	6/24/2024	BFFIP Implementation	BFFIP Implementation for 2-3 years	Open	TBD	\$3,000,000.00	
								TOTAL OPEN:	\$26,600,000
UPCOMING APPLICATIONS									
USBR Drought Resiliency Program	USBR	Water Supply	10/7/2024	Water Supply Planning	Water Supply - Nicasio Spillway	Open	TBD	TBD	TBD
USBR WaterSmart & Energy Efficiency (WEEG)	USBR	Conservation	11/13/2024	AMI Expansion	AMI Expansion	Open	TBD	TBD	TBD
CDFW Environmental Enhancement Fund	CDFW	Fisheries	9/11/2024	Lagunitas Creek Restoration	Phase II	Open	TBD	\$3,457,044.00	0%
LONG TERM OPPORTUNITIES (ongoing development)									
2024 Water Bond	State of CA	Water supply projects	Fall 2024	SWSA Water Supply Projects	Currently in Legislature	In legislature	Voter approval; District participation	TBD	
Water Resources Development Act	Army Corps of Engineers	Water supply projects	FY 2024	SWSA Water Supply Projects	Pursuing for No Regrets and regional projects	In appropriations	Authorization (secured 2022)	\$28,000,000.00	
Small Storage Program	USBR	Water Supply	Fall 2024	Phoenix Lake	Funding for new water supply projects	TBD	Approved Feasibility Study	TBD	
United States Department of Fish and Wildlife	USDFW	Water Supply	Unknown	Phoenix Lake	Habitat Conservation Planning	TBD	Habitat Conservation	TBD	
Dam Safety & Climate Resilience Local Assistance	DWR	Infrastructure	Fall 2024	Unknown	Dam Safety	TBD	TBD	TBD	

DISCUSSION:

B. SUMMARY:

- AF = Acre Feet
- Mg/L = milligrams per liter
- MPN = most probable number
- MPY = mils per year
- MG = million gallons
- NTU = nephelometric turbidity units

1. Water Production:

	FY 2024/25		FY 2023/24	
	(million gallons)	(acre-feet)	(million gallons)	(acre-foot)
Potable				
Total production this FY	1,582	4,854	1,577	4,840
Monthly production, August	781	2,397	797	2,445
Daily average, August	25.19	77.32	25.70	78.89
Recycled				
Total production this FY	74.86	229.73	72.51	222.53
Monthly production, August	36.63	112.42	36.23	111.19
Daily average, August	1.18	3.63	1.17	3.59
Raw Water				
Total production this FY	23.36	71.69	22.15	67.98
Monthly production, August	12.55	38.51	11.25	34.52
Daily average, August	0.40	1.24	0.36	1.11
Imported Water				
Total imported this FY	549	1,686	740	2,271
Monthly imported, August	277	851	372	1,140
Reservoir Storage				
Total storage	22,176	68,057	23,058	70,763
Storage change during August	-975	-2,992	-605	-1,856
Stream Releases				
Total releases this FY	455	1,397	455	1,397
Monthly releases, August	234	719	235	720

2. <u>Precipitation:</u>	<u>FY 2024/25 (in.)</u>	<u>FY 2023/24 (in.)</u>
Alpine	0.00	0.00
Bon Tempe	0.00	0.00
Kent	0.00	0.00
Lagunitas *	0.00	0.01
Nicasio	0.00	0.00
Phoenix	0.00	0.00
Soulajule	0.00	0.00

* Average to date = 0.00 inches

3. Water Quality:

<u>Laboratory:</u>	<u>FY 2024/25</u>	<u>FY 2023/24</u>
<u>Water Quality Complaints:</u>		
Month of Record	21	5
Fiscal Year to Date	40	15
<u>Water Quality Information Phone Calls</u>		
Month of Record	11	3
Fiscal Year to Date	26	4

The WQ lab ensured that the water supplied met or surpassed water quality regulations by collecting and analyzing 1,697 analyses on treatment plants and distribution system samples.

Mild steel corrosion rates averaged 3.47 (2.56-5.23) MPY. The AWWA has recommended an operating level of <5 MPY with a goal of <1 MPY.

Complaint Flushing: One flushing event was performed at 7 Quail Ct in San Rafael for this month on record.

Disinfection Program: 3,720' of new pipelines were disinfected during the month of August. Performed chlorination on 36 water storage tanks to ensure compliance with bacteriological water quality regulations.

Tank Water Quality Monitoring Program: Performed 42 water quality-monitoring events on storage tanks for various water quality parameters this month to help ensure compliance with bacteriological water quality regulations.

Summary:

The lab analyzed 1,697 treatment and distribution water samples, and the water quality department treated 36 tanks for low chlorine and checked an additional 42 tanks for low chlorine residual in August 2024.

4. Water Treatment:

<u>Treatment Results</u>	<u>San Geronimo</u>		<u>Bon Tempe</u>		<u>Ignacio</u>	
	Average	Monthly Goal	Average	Monthly Goal	Average	Monthly Goal
Turbidity (NTU)	0.04	≤ 0.10	0.04	≤ 0.10	0.04	≤ 0.10
Chlorine residual (mg/L)	2.80	2.75 *	2.76	2.75 *	2.84	2.75 *
Color (units)	0.3	≤ 15	0.4	≤ 15	0.0	≤ 15
pH (units)	7.8	7.8*	7.8	7.8*	7.9	8.1**

* Set monthly by Water Quality Lab

** pH to Ignacio is controlled by SCWA

5. Capital Improvement:

- a. Pine Mountain Tank Phase 1 – Rough Grading Project (D21043): The Pine Mountain Tunnel Tanks Replacement Project is a multi-year two-phased project that will replace the existing Pine Mountain Tunnel. This project (Phase 1) will excavate approximately 45,000 cubic yards of hillside and will install a soil nail retaining wall in preparation for a future project that will install two 2-million gallon pre-stressed concrete storage tanks (Phase 2). This Phase 1 project will also perform site grading and drainage improvements.
 - Project Budget: \$7,734,575
 - Monthly Activities: The Contractor is continuing to construct the retaining wall and transfer soil to the Bullfrog Quarry. Concrete Pipe Road between Taylor Trail and Fairfax-Bolinas Road remains closed Monday through Friday 8:00 AM to 5:00 PM throughout the duration of the project. The Phase I rough grading and retaining wall project is anticipated to be complete January 31, 2025.

- b. Redwood Drive Pipeline Replacement Project (CN1989): This project is a component of the District’s Fire Flow Improvement Program and will install approximately 4,400 linear feet of 6-inch welded steel pipe to replace old, leak-prone, and fire flow deficient piping installed as early as 1913 in the unincorporated community of Woodacre.
 - Project Budget: \$2,204,075.20

- Monthly Activities: All contract work is complete. The Contractor is also performing a slide repair project with the County of Marin and may be continuing this work on Redwood Drive.
- c. Wolfback Ridge Tanks Rehabilitation Project (CN2016): This project will replace the roof and recoat both the interior and exterior of each tank at Wolfback Ridge in Sausalito.
- Project Budget: \$950,000
 - Monthly Activities: District staff and the Contractor are completing shop drawing preparation and review for the tank roof systems. Field work is expected to begin October and the contract completion is estimated March 2025.
- d. Sir Francis Drake Pipeline Replacement Project (CN1996): This project will install approximately 4,540 linear feet of welded steel pipe to replaced aged, leak-prone cast iron pipe installed as early as 1924 on Sir Francis Drake Boulevard between San Francisco Boulevard and Butterfield Road. Water pipelines will also be replaced on Broadmoor Avenue and Saunders Avenue, each for approximately 250 feet from Sir Francis Drake.
- Project Budget: \$3,799,400
 - Monthly Activities: The Contractor is has completed all water mainline installation and is installing water services. The District is working closely with Marin Transit and the Town of San Anselmo to mitigate traffic impacts from construction work on Sir Francis Drake Boulevard. The project is anticipated to be complete in November.
- e. Granada Drive Pipeline Replacement Project (CN2007): This project will install approximately 10,230 linear feet of welded steel pipe to replace old, leak-prone, and seismic-deficient piping in the Town of Corte Madera. The District coordinated with the Town to incorporate the Town’s road reconstruction work into the District’s project to minimize construction impacts to the community.
- Project Budget: \$5,564,384
 - Monthly Activities: The Contractor has completed all water facility installation and final paving along the lower sections of the project including Granada Drive, Estrada Lane, Paloma Drive, and El Camino Drive. The Contractor is currently performing water mainline installations along the upper portion of Granada Drive and Endeavor Drive. The project is anticipated to be complete March 2025.
- f. Lagunitas Creek Coho Habitat Enhancement Project – Phase 1A (CN2022): Phase 1A of the Lagunitas Creek Coho Habitat Enhancement Project will implement an extensive set of habitat enhancement structures in Lagunitas Creek within Samuel P. Taylor State Park. The work includes the installation of large woody debris, rock, and gravel structures in Lagunitas Creek in support of endangered Coho Salmon, threatened steelhead populations, and freshwater shrimp.
- Project Budget: \$3,958,000
 - Monthly Activities: The project is underway and the Contractor has mobilized to the project site. The Contractor is currently performing creek restoration work including installing rock and woody debris structures within the creek channel. The Cross Marin Trail remains open to recreation during construction and traffic control measures are implemented as required to protect the public. Project completion is anticipated in late November.

- g. Tiburon Pipeline Replacement Project (CN2014): The 2024 Tiburon Pipeline Replacement Project is a component of the District’s Capital Improvement Program and Fireflow Improvement Program. The project includes the installation of approximately 3,490 linear feet of 8-inch, 6-inch, and 4-inch welded steel potable water pipe with valves, fittings, laterals, and appurtenances in the Town of Tiburon. This project replaces 102 year old, leak-prone, cast iron pipe with new reliable, seismically resilient welded steel pipe.

 - Project Budget: \$3,112,285
 - Monthly Activities: The Contractor is performing water mainline installation along Paradise Drive near Vista Del Mar Lane. The project is expected to be completed this winter.

- h. 2024 Anode Replacement Project (CN2032): The 2024 Anode Replacement Contract is a component of the District’s Capital Improvement Program. The District has approximately 6,930 corrosion test stations throughout the distribution system, most of which utilize magnesium anodes to prevent corrosion damage to the pipelines. These magnesium anodes extend the useful life of the pipelines by preventing leaks and costly damage caused by corrosion. These anodes are sacrificial by nature and deplete over time, requiring replacement. This project is part of the District’s annual or bi-annual effort to routinely replace sacrificial magnesium anodes throughout the District’s service area.

 - Project Budget: \$115,250
 - Monthly Activities: The Contractor has completed anode installations at more than 35 locations and have approximately 15 sites remaining on the contract. The project is anticipated to be complete in September.

- i. 2024 Anode Well Replacement Project (CN2033): The 2024 Anode Well Replacement Project will rehabilitate an existing cathodic protection well in the City of San Rafael, which was installed in 1965 and is due for replacement. The aged well will be replaced insitu with an 11-inch diameter, 41-foot deep anode well in accordance with Marin County regulations. Magnesium anodes installed in the well are used to protect the District’s infrastructure by preventing corrosion, particularly sodium-rich San Francisco Bay mud where corrosion is accelerated.

 - Project Budget: \$197,500
 - Monthly Activities: The construction contract was awarded at the July 16 Board of Directors Meeting and a pre-construction meeting was held on August 20. The District is currently reviewing construction submittals and anticipates mobilizing to the project site in September. The project is anticipated be complete in October.

6. Other:

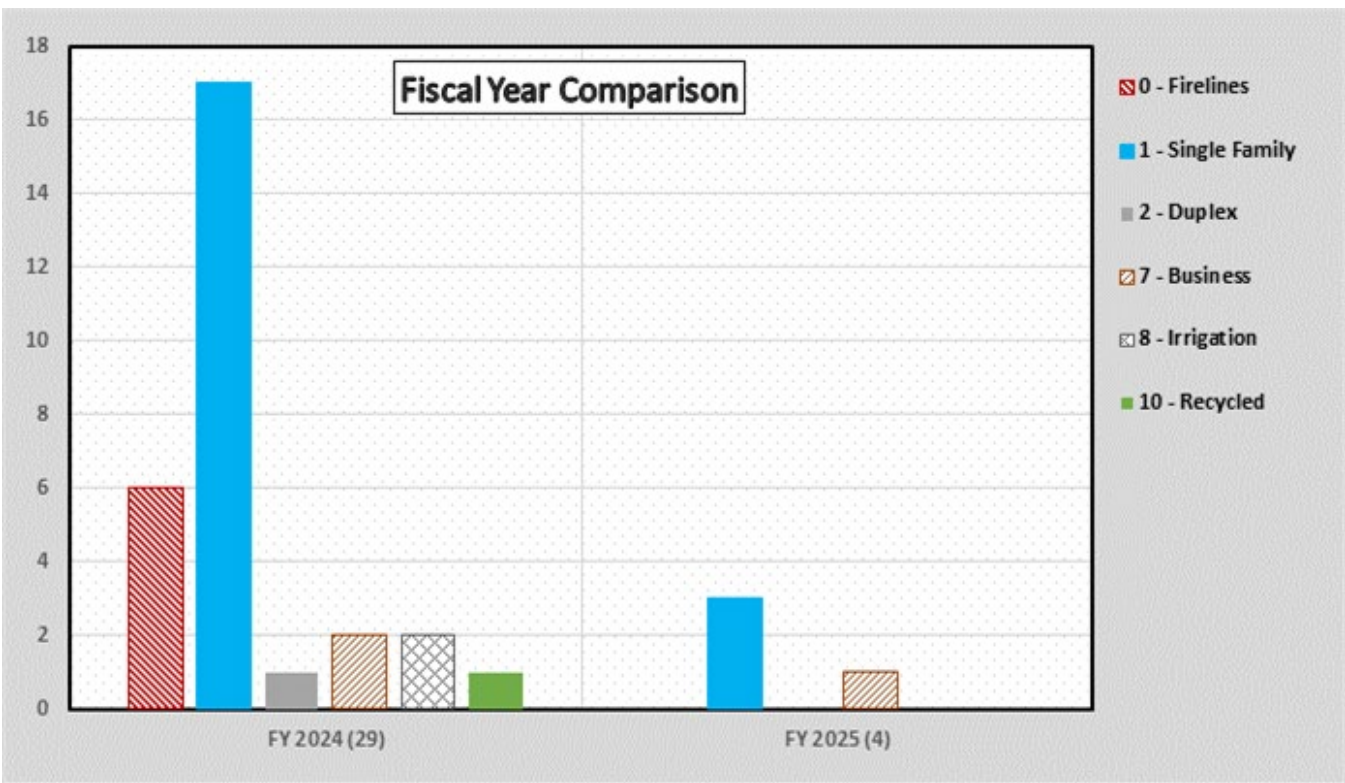
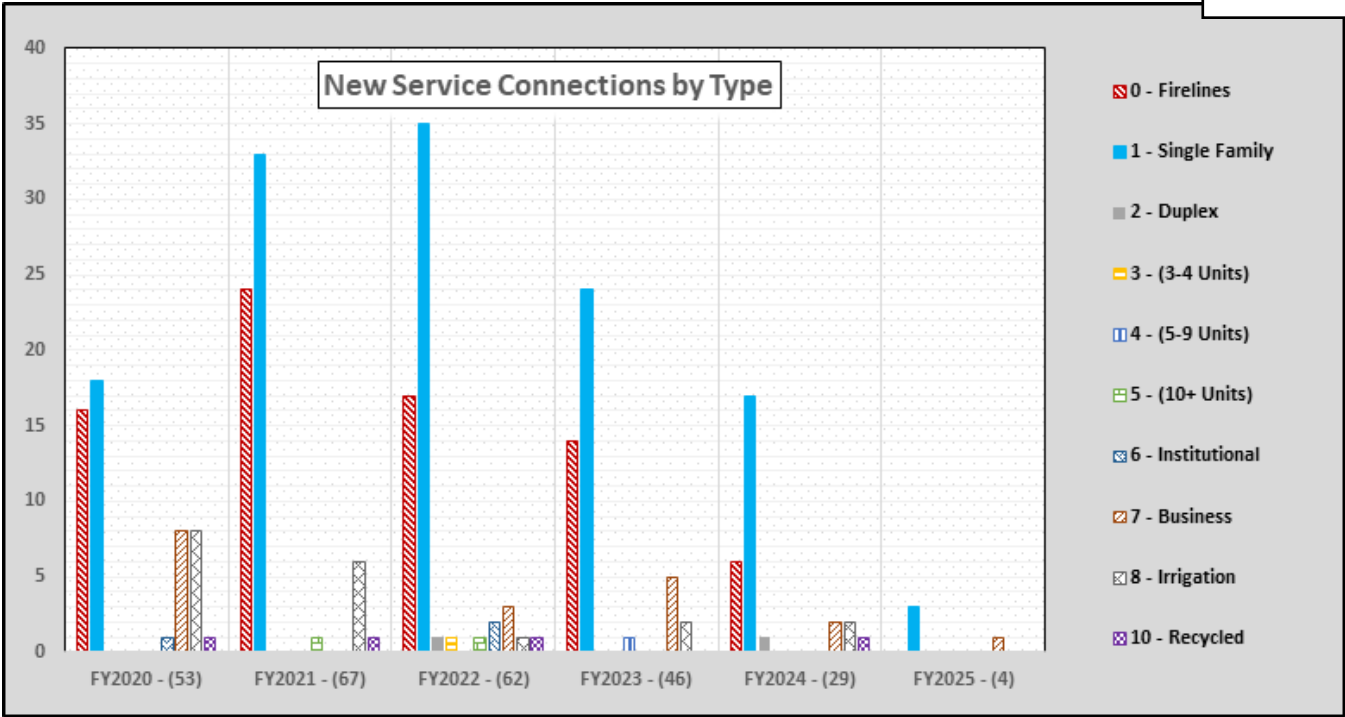
<u>Pipeline Installation</u>	<u>FY2024/25</u>	<u>FY2023/24</u>
Pipe installed during August (feet)	1,933	181
Total pipe installed this fiscal year (feet)	6,346	394
Total miles of pipeline within the District	908*	908*

** Reflects adjustment for abandoned pipelines*

<u>Pipe Locates (1,362 Responses)</u>	<u>FY2024/25</u>	<u>FY2023/24</u>
Month of August (feet)	42,771	51,381
Total this fiscal year (feet)	83,060	77,132

<u>Main Line Leaks Repaired:</u>	<u>FY2024/25</u>	<u>FY2023/24</u>
Month of August	12	17
Total this fiscal year (7/1/24-5/31/25)	25	29

<u>Services:</u>	<u>FY2024/25</u>	<u>FY2023/24</u>
Service upgrades during August	17	22
Total service upgrades this FY	35	35
Service connections installed during August	2	2
Total active services as of September 1st, 2024	60,584	60,764
(Total Including firelines)	61,969	62,153



7. Recruitments and Hires

The District is currently recruiting for the following positions:

- Engineering Technician Supervisor - Development Services
- Supervising Land Surveyor
- Construction Inspector I/II

Through competitive recruitments, employees promoted to the following positions:

- Controls Technician
- Utility Crew Leader

The District recently hired new employees for the following positions:

- Information Systems Analyst II
- Assistant Utility Maintenance Worker (4 positions)

8. Demand Management:

	Aug-24	FY 24/25 TOTAL	FY 23/24 TOTAL	FY 22/23 TOTAL
WATER-EFFICIENCY PROGRAMS				
Water-Use Site Surveys				
Conservation Assistance Program (CAP) Consultations				
Residential properties resi 1-2 (single-family)	70	124	403	291
Residential properties resi 3-5 (multi-family units)	2	2	6	3
Non-residential properties resi 6-7 (commercial)	0	0	0	3
Dedicated irrigation accounts resi 8-10 (large landscape)	1	2	0	0
Marin Master Gardeners' Marin-Friendly Garden Walks				
Residential garden walks	14	26	169	72
Public Outreach, Education, Customer Service				
Public outreach events (number of people attending)	0	500	7022	17775
Public education events (number of participants)	0	0	425	328
Department customer calls/emails	630	1386	4485	4150
Outreach to new Marin Water customers (letters sent)	101	220	1908	0
School Education				
School assemblies				
Number of activities	0	0	19	0
Number of students reached	0	0	21850	0
Field trips				
Number of activities	0	0	16	15
Number of students reached	0	0	343	307
Classroom presentations				
Number of activities	0	0	14	17
Number of students reached	0	0	457	531
Other (e.g. Earth Day booth events, school gardens)				
Number of activities	0	0	3	1
Number of students reached	0	0	400	480
Incentives				
Number of HECWs approved	0	2	98	103
Number of Rain Barrel/Cisterns approved	0	0	9	15
"Cash for Grass" Lawn Replacements approved	9	13	61	116
Number of Laundry-to-Landscape Systems (kits) approved	0	0	1	7
Hot water recirculating system rebates	3	3	11	30
Pool Cover rebates	6	9	35	27
HET rebates	0	3	17	22
Number of Smart Home Water Monitor "Flume Direct Distribution" redeemed	54	110	544	271
Number of Smart Controllers rebates approved	9	12	49	35
Number of Smart Controllers "RainBird compatible w/Flume" approved	5	36	131	0
Number of Smart Controllers "Rachio Direct Distribution" approved	8	64	219	77
Rain Barrel Give-a-way (Gallons)	2420	8140	4840	0
"Cash for Grass" (Best Practices) square ft. lawn replaced	1000	1000	0	0
"Cash for Grass" (Standard) square ft. lawn replaced	6352	10283	0	0
Advanced Metering Infrastructure (AMI)				
AMI leak letters sent to customers (>200 GPD)	95	267	1330	1168
ORDINANCES				
Water Waste Prevention				
Water Waste Reports Received	37	63	224	392
Water Waste Notifications Sent	10	14	49	81
Landscape Plan Review				
Plans submitted	2	14	117	88
Plans exempt	0	2	23	5
Plans completed	0	0	30	20
Plans in workflow (pass & fail)	9	20	172	145
Tier 4 Exemption				
Inspections that resulted in a pass	0	0	2	1
Graywater Compliance Form				
Applications Received	7	20	163	123
Systems installed	2	9	37	23

9. Watershed Protection:

Rangers Respond to Vehicle Accidents

During August, the Rangers responded to two motor vehicle accidents on the Mount Tamalpais Watershed. The first occurred on Bon Tempe Road when there was a vehicle rollover—the second happened on Fairfax Bolinas Road, where a vehicle went off the road by approximately 50 feet. In both accidents Rangers were first on scene and helped medically evaluate the occupants. Luckily, both accidents were non-injury. Speeding was likely a contributing factor in both accidents.



Vehicle Accident on Fairfax Bolinas Road

Suspects Flee from Rangers

In 3 separate incidents this month, Rangers attempted to stop visitors for violating watershed regulations. In each case the visitors fled from Rangers. The attempted stops were for a leash law violation, bike-on-trail, and motorcyclist illegally riding on a fire road. Under the penal code 148, fleeing from an officer is deemed resisting arrest and is a misdemeanor. In all three incidents, the visitors were ordered to stop, but fled instead. They turned an infraction, and possible warning, into a criminal offense. Rangers attempted to locate the suspects with no luck. They will continue to try to identify all 3. If identified, Rangers can request charges be filed through the DA's Office which could result in significant fines as well as being booked into the county jail.

Foot and Bike Patrols in August

The Rangers completed 92 miles of foot and 116 miles of bike patrols during the month.

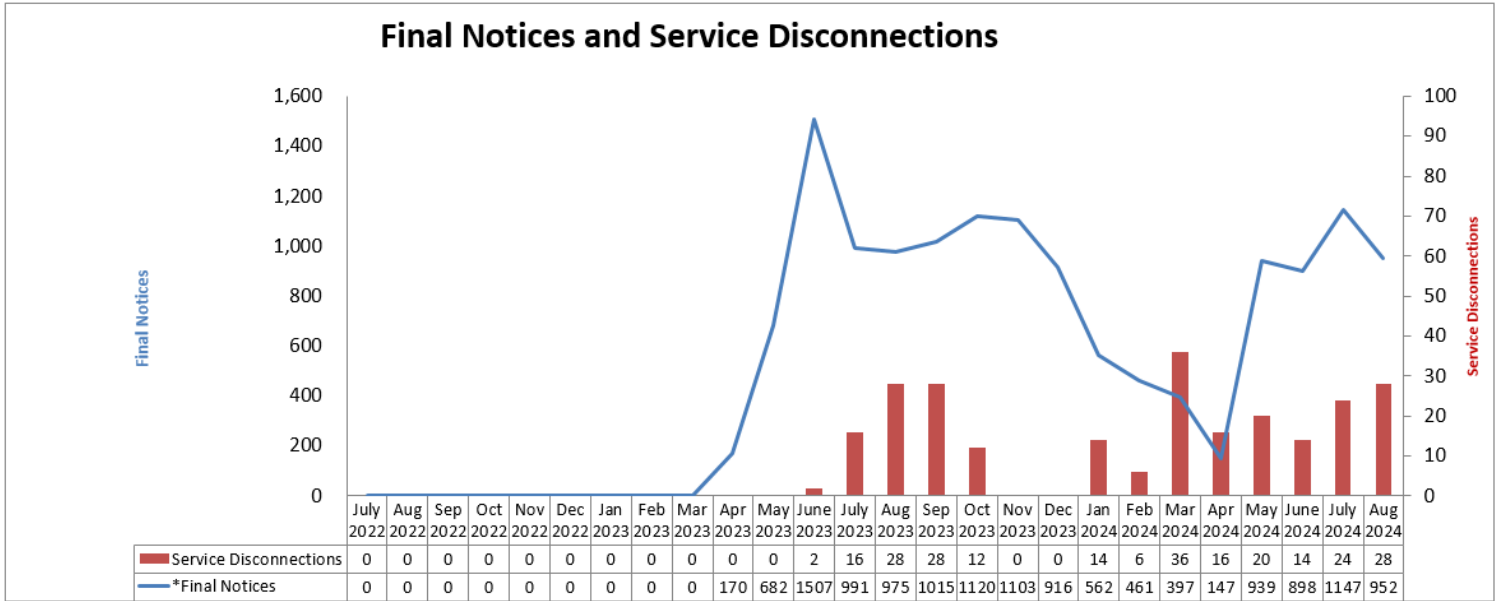
Incidents and Events	Column1
Visitor Assists	157
Dam Checks	114
Warnings	104
Citations	67
Fish and Game checks	61
Assist Maintenance	54
Vandalism	29
Medical Aid	7
Misc LE Calls	5
Illegal Trail Work	5
Humane/Animal Related Call	5
Assist Outside Law Enforcement	3
Resist Peace Officer	3
Assist Other MMWD Work Group	2
Vehicle Accident	2
Assist Outside Agency	2
Citizen Complaint Dog off Leash	1
Citizen Complaint Illegal Bike Use	1
Citizen Complaint Vehicle Speed	1
Citizen Complaint: Swimming	1
Illegal Fire	1
Assist Fire/EMS	1
Total # of Incidents & Events	626

Citations	
Non-Payment of Parking Fees	53
Bike on Trail	6
No Parking	2
Swimming	1
Driving Off Road	1
Dog off Leash	1
Fishing with a License	1
Parking After Sunset	1
Parking in ADA Zone	1
Total Number of Citations	67




10. Shutoff Notices and Disconnections:

*Final Notices
Service Disconnections
* Includes 10 day and final notices



FISCAL IMPACT: None.

ATTACHMENT(S): None.

DEPARTMENT OR DIVISION	DIVISION MANAGER	APPROVED
Office of the General Manager	_____	
	Ben Horenstein General Manager	Ben Horenstein General Manager



STAFF REPORT

Meeting Type: Board of Directors
Title: Ordinance No. 466 Establishing Turf Limits and Updating the District Fixture Standards
From: Paul Sellier, Director of Water Resources
Through: Ben Horenstein, General Manager
Meeting Date: September 17, 2024

TYPE OF ACTION: X Action Information Review and Refer

RECOMMENDATION: Hold a Public Hearing pursuant to California Water Code section 375; and, Adopt Ordinance No. 466 Establishing Turf Limits and Updating the District’s Fixture Standards

SUMMARY: Following extensive discussions on how best to improve the Graywater Ordinance while aligning with its original intent to minimize outdoor water use, Staff developed a proposed recommendation to limit turf installations for newly constructed single-family homes and duplexes. Additionally, the District’s Fixture Standards are out of date and no longer relevant therefore the proposal to update them to meet local municipal law compliant with CALGreen requirements is incorporated into the proposed ordinance.

DISCUSSION: A Board Workshop was held on May 1, 2024 focused on the Water Efficiency Master Plan. The Master Plan contained proposed policy changes to the Graywater Ordinance and District Fixture Standards that were discussed with the Board, which led to proposed policy revisions.

Repeal and Replace the Graywater Ordinance

Following the Workshop, at the May 15, 2024 Communications and Water Efficiency Committee meeting, staff presented an updated draft policy incorporating input provided at the Workshop. This presentation proposed repealing and replacing the Graywater Ordinance with a landscape requirement to install either: low water use landscaping or a graywater system. Recognizing the opportunity to build water efficiency into the landscape when it is first installed, on August 8, 2024, staff presented a further revised policy to take the place of the current Graywater Ordinance. The proposed policy would limit the amount of turf that may be installed with the construction of any new single family home or duplex, which will ensure new landscapes require less water than current regulations allow. The proposal is to limit turf areas to 20% of the total landscape area not to exceed 1,200 sqft for newly constructed single-family homes and duplexes effective January 1, 2025.

Update District Fixture Standards

The other near term proposed policy change would address the District’s current fixture standards. The District requires that all interior plumbing installed, replaced, or moved in any new or existing service be high-efficiency fixtures. Previously, the District code for interior plumbing fixtures stood as one of the most progressive in the State. However, with the advancement the State’s CALGreen Building standards, the District’s regulations have become outdated. As all the local jurisdictions are now required to adopt CALGreen standards, there exists a need to update the District code to align with the State requirements, ensuring that the updated standards continue driving efficiency in the region. The proposal is to replace the current outdated code with a reference to the State’s CALGreen Fixture Standards, which are updated every three years to align with the latest available technology.



Staff has prepared draft Ordinance No. 466 to implement these changes for consideration by the Board.

ENVIRONMENTAL REVIEW: Staff have determined that the proposed ordinance can be seen with certainty to have no significant effect on the environment pursuant to section 15061(b)(3) of the California Environmental Quality Act Guidelines.

FISCAL IMPACT: None.

ATTACHMENT(S):

- 1. Draft Ordinance No. 466

DEPARTMENT OR DIVISION	DIVISION MANAGER	APPROVED
Water Resources	 <hr/> Paul Sellier	 <hr/> Ben Horenstein
	Water Resources Director	General Manager

DRAFT**MARIN MUNICIPAL WATER DISTRICT
ORDINANCE NO. 466****AN ORDINANCE MAKING CHANGES TO
CHAPTER 13.02 OF THE MARIN MUNICIPAL WATER DISTRICT CODE ENTITLED
“WATER CONSERVATION AND DRY YEAR WATER USE REDUCTION
PROGRAM” OF TITLE 13 OF THE MARIN MUNICIPAL WATER DISTRICT CODE
ENTITLED “WATER SERVICE CONDITIONS AND WATER CONSERVATION
MEASURES”**

**BE IT ORDAINED BY THE BOARD OF DIRECTORS OF THE MARIN MUNICIPAL
WATER DISTRICT AS FOLLOWS:**

SECTION 1. Purpose: The purpose of Ordinance No. 466 (Ordinance) is to enhance the District’s normal year, ongoing, water conservation measures to conserve water supply for beneficial uses and reduce water waste consistent with Article X, Section II of the California Constitution and Water Code Section 375. The changes contained in this Ordinance align District interior plumbing efficiency requirements with current state and local standards. The Ordinance also eliminates certain District water efficiency requirements that have experienced low implementation rates to reallocate existing District resources to other water efficiency programs that will result in higher-levels of water savings.

SECTION 2. Subsection (B) of Section 13.02.021(3) of the Marin Municipal Water District Code entitled “Interior Plumbing Fixtures” is hereby deleted and replaced with the following:

- B. Interior Plumbing Fixtures. All plumbing installed, replaced or moved in any new or existing water service shall meet the applicable standards in effect within the governing municipality, but at minimum shall comply with the California Green Building Standards Code, Part 11 of Title 24 of the California Code of Regulations (CALGreen) Tier 1 efficiency standards, as may be amended from time to time.

SECTION 3. Section 13.02.021(4) of the Marin Municipal Water District Code entitled “Nonresidential Interior Plumbing Fixtures” is hereby deleted and replaced with the following:

(4) Nonresidential Interior Plumbing Fixtures.

- A. All plumbing installed, replaced or moved in any new or existing water service shall meet the applicable standards in effect within the governing municipality, but at minimum shall comply with the California Green Building Standards Code, Part 11 of Title 24 of the California Code of Regulations (CALGreen) Tier 1 efficiency

standards, as may be amended from time to time.

- B. Commercial Equipment Specifications. The following additional requirements shall apply, where applicable to any commercial use.
1. *Dishwashers*. Dishwashers shall meet, at minimum, the CEE High Efficiency Specifications for Commercial Dishwashers as may be amended from time to time.
 2. *Steamers*. Steamers shall meet, at minimum, the current specifications set by the CEE's "High Efficiency Specifications for Commercial Steamers" as may be amended from time to time.
 3. *Dipper Wells*. Dipper well flow rates shall be 0.3 gallon, or less, per minute.
 4. *Ice Machines*. Ice machines shall (1) be Energy Star qualified and (2) meet the highest Tier specification set by the CEE "High Efficiency Specifications for Air-Cooled Ice Machines" as may be amended from time to time.

SECTION 4. Section 13.02.021(8) of the Marin Municipal Water District Code entitled "Graywater Systems" is hereby deleted and replaced with the following:

(8) Turf Limits For New Development Of Single-Family Residences and Duplexes. Newly developed single-family or duplex residences shall not install more than twenty percent (20%) of the total Residential Landscape area, or 1,200 square feet, whichever is less, with Turf. This prohibition shall apply to the Residential Landscapes of all newly developed single-family and duplex residences within the District for which a building permit is submitted on or after January 1, 2025.

SECTION 5. Findings: The Board of Directors, after considering all of the information, documentation, comments and testimony presented at the District's July 16, 2024 public hearing finds as follows:

- A. Article X Section 2 of the California Constitution declares that the general welfare requires that water resources be put to beneficial use to the fullest extent of which they are capable and that the waste, unreasonable use or unreasonable method of use of water be prevented, and that conservation of such waters is to be exercised with a view to the reasonable and beneficial use thereof in the interest of the people and the public welfare.
- B. California Water Code section 375 authorizes water suppliers to adopt and enforce a comprehensive water conservation program to reduce water consumption and conserve supplies.
- C. The Board of Directors determines that this enhanced water conservation program is a fundamental and necessary step in its on-going efforts to reduce overall water use District-wide and improve the District's water resiliency efforts.

- D. The adoption and enforcement of the water use restrictions contained in this Ordinance are necessary to manage and conserve the District's water supply and ensure the sustainability and reliability of the same by preventing water waste.
- E. This Ordinance will also serve to align the District's requirements with the most current state and local water efficiency standards as set forth in the California Green Building Standards Code, Part 11 of Title 24 of the California Code of Regulations (CALGreen) to ensure the District's water conservation program further reduces water consumption to conserve the District's supply by preventing water waste.
- F. The District has found that the existing graywater requirement for new water services and "substantial remodels", as defined by the Marin County Code, has in many cases been infeasible for District customers, leading to the an implementation rate of only 38% in 2022.
- G. Due to this low implementation rate of graywater installations, this Ordinance eliminates the graywater requirements for new services and substantial remodels in order to focus District staff time and resources on other water efficiency initiatives and programs that will have higher participation rates and result in increased water savings.
- H. Turf uses substantially more water than low or very low water landscapes, and are typically irrigated with potable water due to the limited distribution of recycled water within the District.

By adopting turf limits for newly developed single-family and duplex residences within the District, the District will experience a savings of potable water critical to the District's ongoing water resiliency efforts.

SECTION 6. Environmental Determination: This project has been reviewed for compliance with the California Environmental Quality Act (CEQA) and based upon the above findings and purpose of this Ordinance, qualifies for an exemption pursuant to Section 15061(b)(3) of the CEQA Guidelines as there is no possibility that the activity in question may have a significant effect on the environment.

SECTION 7. Severability: If any section, subsection, sentence, clause, phrase, portion or part of this Ordinance is for any reason held to be invalid or unconstitutional by any court of competent jurisdiction, such section shall not affect the validity of the remaining portions of this code. The Board of Directors hereby declares that it would have adopted this Ordinance and each section, subsection, sentence, clause, phrase, part or portion thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses, phrases, parts or portions be declared invalid or unconstitutional and, to that end, declares the provisions of this Ordinance severable from one another.

SECTION 8. Effective Date: Pursuant to Water Code section 376, this Ordinance shall be effective on the day of its adoption. Within 10 days of adoption, this Ordinance, or a summary

hereof, shall be published in the Marin Independent Journal pursuant to Section 6061 of the Government Code.

PASSED AND ADOPTED this 17th day of September, 2024, by the following vote of the Board of Directors:

AYES:

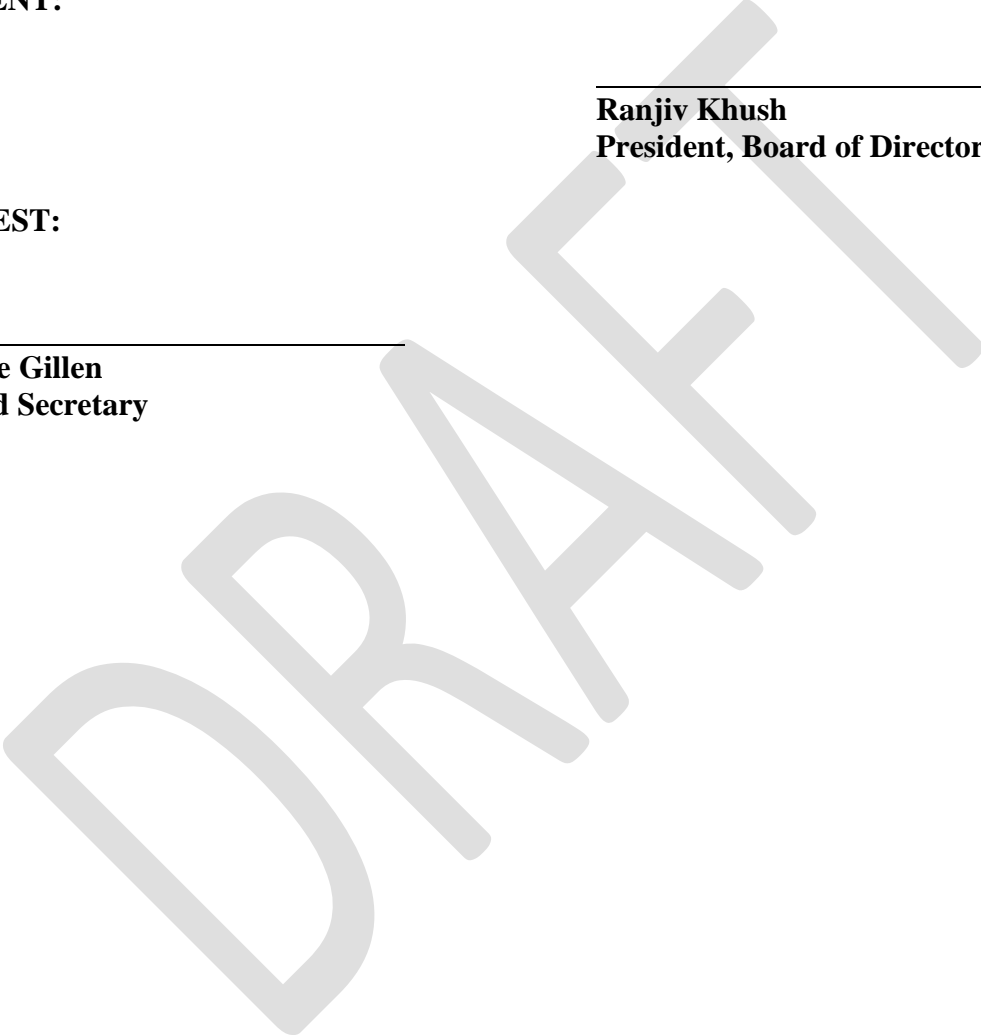
NOES:

ABSENT:

Ranjiv Khush
President, Board of Directors

ATTEST:

Terrie Gillen
Board Secretary





STAFF REPORT

Meeting Type: Board of Directors

Title: Amendment No. 4 to Professional Services Agreement MA-5963 with Woodward & Curran, Inc. for Engineering Services During Construction and Final Design Services of Phase II of the Pine Mountain Tunnel Tanks Replacement Project

From: Alex Anaya, Director of Engineering

Through: Ben Horenstein, General Manager

Meeting Date: September 17, 2024

TYPE OF ACTION: X Action Information Review and Refer

RECOMMENDATION: Approve, and authorize the General Manager to execute Amendment No. 4 to Professional Service Agreement No. 5963 with Woodward & Curran, for engineering services during construction for Phase II and for Design Services to complete plans, specifications and estimate for Phase II of the Pine Mountain Tanks Replacement Project (D21043) in the amount of \$450,015

SUMMARY: To date, the District has executed three amendments to Professional Services Agreement (PSA) MA-5963 with Woodard & Curran for Phase I and II design engineering, engineering services during construction of Phase I and grant funding assistance in support of the Pine Mountain Tunnel Tanks Replacement Project. Staff is requesting to execute a fourth amendment with Woodard and Curran to provide engineering services during construction of Phase II and to finalize the Phase II plans, specification and estimate which will allow the District to advertise Phase II of this project by the end of this year.

On July 6, 2021, the Board awarded Professional Services Agreement MA-5963 (Agreement) to Woodard & Curran for the preliminary design for the Pine Mountain Tunnel Tanks Replacement Project (Project) as necessary for the District to undertake environmental review for the proposed project. The Board adopted a Final Initial Study/Mitigated Negative Declaration (Final IS/MND) and a Mitigation Monitoring and Reporting Program, and approved the Project on December 14, 2021. The Board approved amendment No.1 to Agreement MA-5963 with Woodard & Curran for Phase I and Phase II design along with a \$54,000 staff requested contingency on January 4, 2022. Design for Phase I was completed and the Phase I construction contract was awarded at the May 24, 2022 Board meeting. Prior to the start of Phase I construction, an opportunity was presented to apply for grant funding for the Project. District staff worked with CalOES on a FEMA Hazard Mitigation grant application which required additional effort from Woodard & Curran to generate a seismic

evaluation report. In addition, prior to the delay of construction, Woodard & Curran provided additional engineering services during the Phase I construction submittal review process. Both grant funding assistance and construction submittal design support were not part of the scope of work under Amendment No. 1 of the Agreement. The District approved Amendment No. 2 on March 21, 2023 to cover these additional costs. Amendment No. 3 was executed under the General Managers authority previously authorized by the Board under Amendment No. 1 at the January 4, 2022 Board meeting. Amendment No. 3 utilized the \$54,000 contingency to cover additional engineering services during Phase I construction.

Amendment No. 4 to Professional Services Agreement MA-5963 with Woodard & Curran, will add budget for engineering services during Phase II construction as well as finalize the Phase II plans, specifications and engineering estimate, allowing the District to advertise the project by the end of this year and start Phase II construction on August 1, 2025.

DISCUSSION: The Pine Mountain Tunnel is an 8,700-foot long tunnel built in 1919 to convey and treat water from Alpine Lake to San Rafael and the Ross Valley, now known as the Ross Valley System, which serves 44,000 District customers or roughly 23% of the District's service area. Due to regulatory constraints, the District abandoned the tunnel as a conveyance system in 1971, but retained the tunnel to provide storage (approximately 3 million gallons) and surge protection. The tunnel is severely deteriorated and at end of its useful life. The District provides periodic updates to the State Water Resources Control Board Division of Drinking Water regarding the District's progress for the tunnel's decommissioning and replacement.

In support of the Water System Master Plan, the District and its consultant, Woodard & Curran, conducted a focused evaluation of the storage needed to replace Pine Mountain Tunnel and support the larger Ross Valley system, including a detailed reviewed of the previous studies and assumptions to improve storage capacity and reliability in the Ross Valley system. A sizing study for the Ross Valley system determined the appropriate sizing (estimated at 3 to 4 MG) for the storage needed to replace Pine Mountain Tunnel and established an optimum elevation for the replacement storage. Project siting alternatives were developed, with sites including locations that were previously analyzed in prior efforts as well as new potential storage site locations. The preferred project location for a storage facility to replace Pine Mountain Tunnel was located at Concrete Pipe Road near drainage culvert No. 5. The siting analysis was presented to the Operations Committee on May 21, 2021, and is part of the approved Project.

Following the May 21st Operations Committee meeting, the next step for the Pine Mountain Tunnel Replacement Project were to integrate the engineering studies with the environmental analysis and documentation needed for the project by preparing the preliminary design of the project to the 30% design level. Environmental Science Associates (ESA) conducted and prepared the environmental analysis and documentation for the Pine Mountain Tunnel Replacement Project under their on-call environmental services contract with the District. Preliminary design of the preferred alternative was a necessary component to completing the environmental analysis and documentation. The preliminary design of the Project was completed by Woodard & Curran, and Environmental Science Associates prepared the California Environmental Quality Act documents (Initial Study and Mitigated Negative Declarations (IS/MND)) along with the Mitigation Monitoring Reporting Plan (MMRP) required for the District to proceed with the Project. On December 14, 2021, the Board of Directors adopted the Final IS/MND and MMRP for the Project.

At the January 4, 2022 Board Meeting, the Board approved Amendment No. 1 with Woodard & Curran for final design of the Project along with a \$54,000 staff requested contingency. After award of the Phase I construction contract on May 24, 2022, and prior to the start of Phase I construction, an opportunity was presented to apply for grant funding for the Project. District staff worked with CalOES on a FEMA Hazard Mitigation grant application which required additional effort from Woodard & Curran to generate a seismic evaluation report. In addition, prior to the delay of construction, Woodard & Curran provided additional engineering services during the Phase I construction submittal review process. Both grant funding assistance and construction submittal design support were not part of the scope of work under Amendment No. 1 of the Agreement. The District approved Amendment No. 2 on March 21, 2023 to cover these additional costs. Amendment No. 3 was executed under the General Managers authority previously authorized by the Board under Amendment No. 1 at the January 4, 2022 Board meeting. Amendment No. 3 utilized the \$54,000 contingency to cover additional engineering services during Phase I construction.

District staff recommends the Board approve and authorize the General Manager to execute, Amendment No. 4 to the Professional Services Agreement No. 5963 with Woodard & Curran to augment the contract budget to cover the cost for project management assistance in the amount of \$30,089; ensure staff has engineering support during Phase II construction activities in the amount of \$200,000; and complete Phase II design and provide 100% plans, specifications and an estimate of project costs along with assistance during advertisement of Phase II of construction in the amount of \$219,926.

As shown the below project schedule, Phase II advertisement for construction bids are anticipated in December 2024.

Project Implementation:

Present project to Operations Committee:	June 18, 2021
Board approval of professional services agreement:	July 6, 2021
Complete preliminary design:	November 2021
Adopted Final IS/MND:	December 14, 2021
Award Amendment No.1:	January 4, 2022
Complete Phase I design:	April 2022
Advertised Phase I Project:	April 5, 2022
Award Phase I Contract:	May 24, 2022
Award Amendment No. 2:	March 21, 2023
Award Amendment No. 3:	March 19, 2024
Award Amendment No. 4:	September 17, 2024
Complete Phase II design:	November, 2024
Advertise Phase II Project:	December, 2024
Complete Phase I Construction:	January 31, 2025
Award Phase II Contract:	February, 2025
Start Phase II Construction:	August 1, 2025
Phase II Project Completion	February, 2028

FISCAL IMPACT: The existing Professional Services Agreement with Woodard & Curran for MA-5963 is for a total of \$1,232,913. Amendment No. 4 to MA-5963 will increase the existing amount by \$450,015 to a new contract amount of \$1,682,928. Funding for this amendment is identified in FY 25 adopted budget under the Pine Mountain Tunnel Replacement Project in the Replacement of Storage Tanks fund center.

**Table 1
Pine Mountain Tunnel Replacement Project
Design Scope of Work Summary**

Task Description	Budget
Task 1 – Project Management: This task includes managing the project team, the scope of work, conducting project progress meetings, preparing monthly progress reports and baseline schedule.	\$30,089
Task 7 – Pine Mountain Tanks – ESDC’s: This task includes engineering support during construction, including attending Phase II preconstruction meeting, bi-weekly construction progress meetings, submittal reviews, response to request for information (RFI), contract document changes, construction closeout and as built drawing preparation.	\$200,000
Task 9 – Pine Mountain Tanks – Design Updates: This task includes updating 65% plans based on District comments and holding a Phase II 90% design review meeting with District staff to discuss plans and specifications; update Phase II plans, specifications and estimate to 100% based on design review meeting and provide final PS&E package.	\$219,926
TOTAL AUTHORIZED AMOUNT	\$450,015

ATTACHMENT(S): None.

DEPARTMENT OR DIVISION	DIVISION MANAGER	APPROVED
Engineering	 <hr/> Alex Anaya Engineering Director	 <hr/> Ben Horenstein General Manager



UPCOMING MEETINGS

This schedule lists upcoming board and committee meetings as well as upcoming agenda items for the next month, which may include Board interest in adding future meeting items. The schedule is tentative and subject to change pending final publication and posting of each meeting agenda.

Internal Meetings		
Meeting Date	Meeting Type	Key Item(s)
Thursday, Sep. 19, 2024 9:30 a.m.	Watershed Committee Meeting/Special Meeting of the Board of Directors	Lagunitas Creek Restoration Project Update
Friday, Sep. 20, 2024 9:30 a.m.	Operations Committee Meeting/Special Meeting of the Board of Directors	AMI Program Update
Thursday, Sep. 26, 2024 9:30 a.m.	Finance & Administration Committee Meeting/Special Meeting of the Board of Directors	Board Handbook Review

External Meetings	
Meeting Date	Meeting Type
Friday, October 4, 2024 9:30 a.m.	North Bay Watershed Association Board Meeting