



STAFF REPORT

Meeting Type: Board of Directors
Title: General Manager's Report February 2025
From: Ben Horenstein, General Manager
Meeting Date: March 18, 2025

TYPE OF ITEM: X Action Information

RECOMMENDATION: Approve Report

SUMMARY:

A. HIGHLIGHTS:

- The daily average net production for the month of February 2025 was 13.8 MGD compared to 13.6 MGD for the month of February 2024. Typical usage for February is 17.2 MGD.
- Staff conducted site visit with the Lagunitas TAC in support of the Nicasio Spillway Modifications Project. This meeting was to provide information to the Lagunitas TAC on the Project and obtain feedback from them. Staff also attended the Nicasio Landowners HOA meeting to introduce the Project to the residents in the Community of Nicasio. Staff will have regular check in meetings with both the Lagunitas TAC and Nicasio Landowner HOA to keep interested parties up to date on the Project.
- Staff received confirmation that one of staff's abstracts has been accepted for a formal presentation at this year ACE AWWA conference in Denver, CO. This will provide staff an opportunity for continued involvement in professional conferences and share some of the more technical work that the District has been working on. The presentation will be focused on the District's system evaluation for micro turbine energy recovery opportunities and the findings.
- Annual water quality flushing was performed on the District's water mains to clean sediment build-up in areas of our water system. This year staff flushed areas in Mill Valley, Sausalito and Tam Valley. These areas represented approximately 20% of the District service area. Over the course of eight days, teams of two completed an assigned procedure consisting of flushing 18-20 facilities per team per day. The facilities flushed include hydrants and blow offs.
- Staff completed the Ignacio Pump Station volumetric test. The test verifies the accuracy of the pump station flowmeter and the flowmeter is used by both North Marin Water District and Sonoma County Water Agency for billing purposes.

- An act of vandalism left the Terra Linda Tank level sensor, communication antennae and the potable make up valve without PG&E power. Temporary batteries were installed to power the facility until staff could replace 1,200 ft. of wire to get the site back on to PG&E power.
- A seasonal flow change was needed at the Soulajule creek release. However, the valve did not respond with remote command. Staff completed a site visit to change the flow by hand and began to investigate the failure. The actuator was removed and brought back to the yard shop where it was disassembled and discovered to have a broken gear. The parts were ordered and the gear box reassembled and installed to once again allow for remote operation.
- Water level in a tank is often controlled by an altitude valve. If the rubber diaphragm fails within the valve, water level in the tank could rise and risk overflow. This month, staff overhauled several major altitude valves with a new diaphragm including Puerto Suello Tank, Strawberry Tank and San Clemente Tank. Additionally, Lucas Valley Tank altitude valve pilots were changed to prevent sticking.
- Staff continues to make progress on the BFFIP Fuel Reduction work. Maintenance conducted 7 pile burn days in February totaling 425 piles for the month, and over 1,000 piles so far this burn season through 2/28/25. Coordination with Forster & Kroeger, Biswell Forestry, CCNB, is ongoing to continue burning piles near West Peak of Mt Tam.
- Winter storms resulted in a land slide on Filter Plant Rd. watershed maintenance cleared the slide over a two day period and coordinated with PG&E to repair the power lines running to Bon Tempe Treatment Plant.
- In February vegetation work transitioned from forest thinning projects to broom pulling due to the beginning of Spotted Owl nesting season. The District continues to work with Forster & Kroeger, Bay Area Tree Specialists, Conservation Corps North Bay, and others to complete Cal-Fire and Wildlife Conservation Board grant funded projects across multiple locations on the Watershed. The district also coordinated with PG&E contractors as they completed routine fuelbreak maintenance around a leased facility near Middle Peak.
- Weekly salmon spawner surveys continued with record counts of both Coho and Chinook Salmon in the Lagunitas Creek watershed. A peak flow of 6,210 cfs occurred in Lagunitas Creek (approximately 20-25 year event) on February 4th, and District staff were pleased to observe that all Phase 1A habitat enhancement structures remained intact and appear to be performing well.
- Fisheries continued Nicasio creek monitoring by compiling reservoir water temperature data and deploying continuous water temperature data loggers downstream of the reservoir.

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	DWR	Water Infrastructure	12/1/22	Marin City/San Rafael Infrastructure	Replacing aging transmission lines and laterals in Marin City and San Rafael's Canal District	Funded	IRWM CC Approval	\$6,500,000	0	
Forestry Corps	CCNB	Vegetation Management	Jan 2023	Ongoing Forestry work	Workforce development, state funding directly to CCNB to fund crews working on the watershed	Funded	Corps Partnership	\$500,000	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	Barrels 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		\$722,625		
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 WCS	Forestry Restoration	11/2/123	BFFIP Implementation	BFFIP Implementation for 2-3 years	Funded	CEQA	\$2,600,000	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	CAOES/ 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 expend 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	8/24/2024	BFFIP Implementation	BFFIP Implementation for 2-3 years	Open	TBD	\$3,000,000.00		
CDFW Environmental Enhancement Fund	CDFW	Fisheries	9/11/2024	Lagunitas Creek Restoration	Phase II	Not Funded	TBD	\$3,457,044.00	0%	
USBR Drought Resiliency Program	USBR	Water Supply	10/7/2024	Water Supply Planning	Water Supply - Nicasio Spillway	Open	TBD	\$3,000,000.00	50%	
Dam Safety & Climate Resilience Local Assistance	DWR	Infrastructure	10/21/24	Phoenix and Lagunitas Valves & Actuator Replacement	Dam Safety	Open	TBD	\$2,000,000.00	50%	
								TOTAL OPEN:	\$29,600,000	
UPCOMING APPLICATIONS										
USBR WaterSmart & Energy Efficiency (WEEG)	USBR	Conservation	11/13/2024	AMI Expansion	AMI Expansion	Open	TBD	\$3,500,000.00	50%	
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 PI		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	4,870	14,946	4,749	14,573
Monthly production, February	386	1,183	394	1,210
Daily average, February	13.77	42.26	14.09	43.23
Recycled				
Total production this FY	176.19	540.69	172.10	528.17
Monthly production, February	8.55	26.24	8.33	25.55
Daily average, February	0.31	0.94	0.30	0.91
Raw Water				
Total production this FY	61.56	188.92	38.84	119.20
Monthly production, February	0.00	0.00	0.00	0.00
Daily average, February	0.00	0.00	0.00	0.00
Imported Water				
Total imported this FY	1,443	4,429	1,702	5,224
Monthly imported, February	10	31	6	20
Reservoir Storage				
Total storage, February	25,920	79,546	25,927	79,566
Storage change during February	-7	-20	0	0
Stream Releases				
Total releases this FY	2,006	6,156	2,076	6,371
Monthly releases, February	75	230	67	205

2. <u>Precipitation:</u>	<u>FY 2024/25 (in.)</u>	<u>FY 2023/24 (in.)</u>
ALPINE	14.89	39.83
BON TEMPE	12.79	36.18
KENT	16.37	41.62
LAGUNITAS	15.98	42.10
NICASIO	10.77	28.49
PHOENIX	17.16	41.39
SOULAJULE	11.75	28.26

* Average to date = 39.35 inches

3. Water Quality:

<u>Laboratory</u>	<u>FY 2024/25</u>	<u>FY 2023/24</u>
Water Quality Complaints:		
Month of Record	16	7
Fiscal Year to Date	151	58
Water Quality Information Phone Calls:		
Month of Record	8	13
Fiscal Year to Date	93	39

The WQ lab ensured that the water supplied met or surpassed water quality regulations by collecting and analyzing 1,570 analyses on treatment plants and distribution system samples.

Mild steel corrosion rates averaged 1.77 (0.69 – 3.29) MPY. The AWWA has recommended an operating level of <5 MPY with a goal of <1 MPY.

Complaint Flushing: Two flushing event was performed at 121 Sequoia Dr. in San Anselmo and one at 1234 Las Gallinas Ave. in San Rafael to ensure water quality for this month on record.

Disinfection Program: 1,893' of new pipelines were disinfected during the month of February. Performed chlorination on 3 water storage tanks to ensure compliance with bacteriological water quality regulations.

Tank Water Quality Monitoring Program: Performed 60 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 1,570 treatment plant and distribution water samples, and the water quality department treated 3 tanks for low chlorine and checked an additional 60 tanks for low chlorine residual in February 2025.

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)	0.05	≤ 0.10	0.05	≤ 0.10	0.05	≤ 0.10
Chlorine residual (mg/Lv)	2.74	2.75 *	2.74	2.75 *	2.87	2.75 *
Color (units)	0.5	≤ 15	0.2	≤ 15	0.0	≤ 15
pH (units)	7.8	7.8*	7.7	7.8*	8.0	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 project is complete.

- b. Wolfback Ridge Tanks Rehabilitation Project (D20009): 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: The Contractor has completed repairs and recoating for one of the two tanks and is removing containment. The completed first tank will be tested and

placed back into service in March and the Contractor will begin installing containment and performing repairs on the second tank. The project completion is estimated April 2025.

- c. Granada Drive Pipeline Replacement Project (D23020): 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 project has reached substantial completion with the exception of final roadway paving, which will be performed pending acceptable weather conditions. Paving is anticipated to be performed in April 2025.

- d. Tiburon Pipeline Replacement Project (D23018): 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 project has been substantially completed and the contractor has demobilized equipment. Final roadway striping remains, which will be completed March 2025.

- e. Rock Ridge Pipeline Replacement Project (F22001): The Rock Ridge Pipeline Replacement Project (Project) is a component of the Fire Flow Improvement Program. This Project will install approximately 7,590 feet of new 8" and 6" welded steel and polyvinyl chloride (PVC) pipe to replace the old, leak prone fire flow deficient piping installed as early as 1934.
 - Project Budget: \$3,928,105
 - Monthly Activities: The Contractor has completed approximately 5,000 linear feet of pipe installation and is currently installing mainline pipe on Oak Manor Drive and Von Court. The Contractor is also completed water service installation on Arcangel Court. The project is expected to be completed May 2025.

- f. Marin City Phase I Pipeline Replacement Project (GC25005): The Marin City Phase I Pipeline Replacement Project is a component of the District's Capital Improvement Program. This Project will install approximately 9,200 linear feet of 8, 6 and 4-inch welded steel pipe to replace the old, leak prone, seismic deficient pipe installed as early as 1959.
 - Project Budget: \$4,069,592.20
 - Monthly Activities: The Contractor is performing mainline pipe installation and has installed approximately 4,200 linear feet of 8-inch welded steel pipe to date. The contractor is currently working near Sir Francis Drake Boulevard and Cole Drive. The project is expected to be completed October 2025.

6. Other:

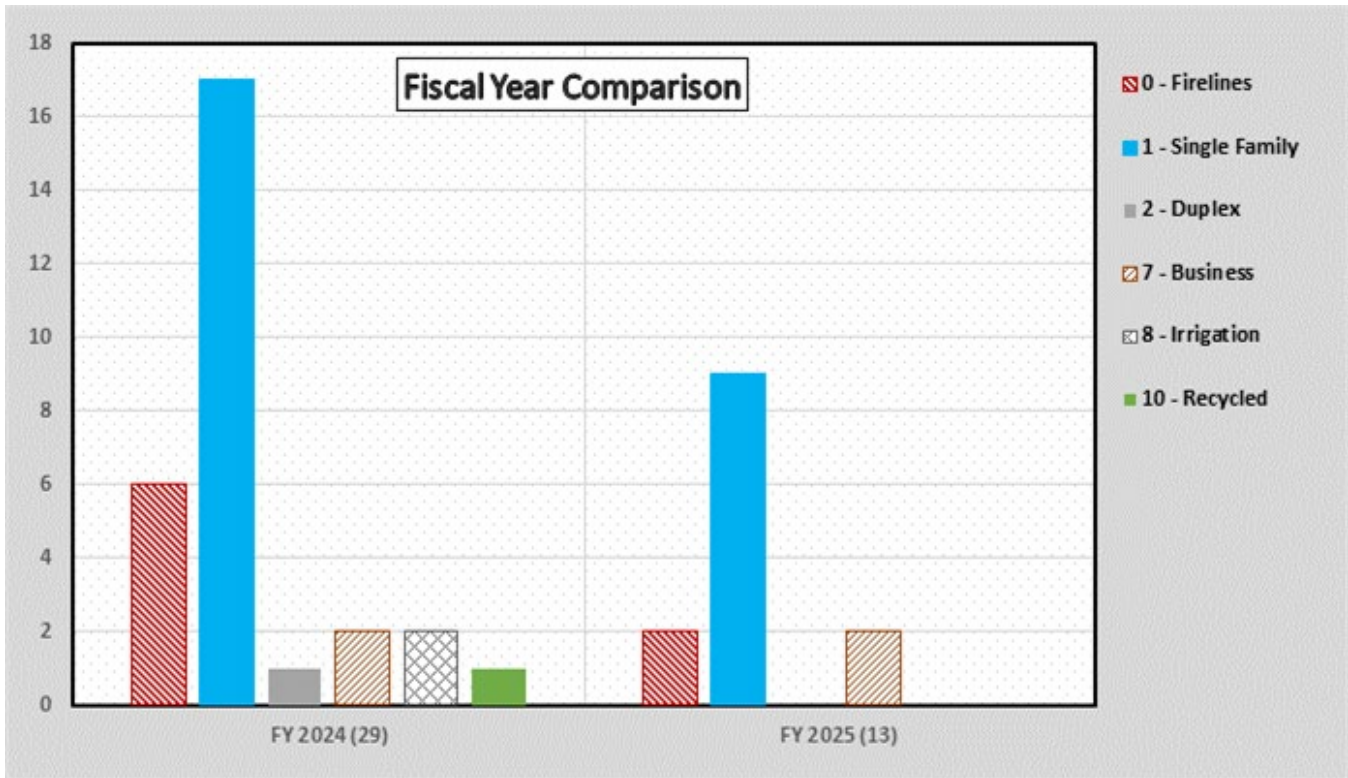
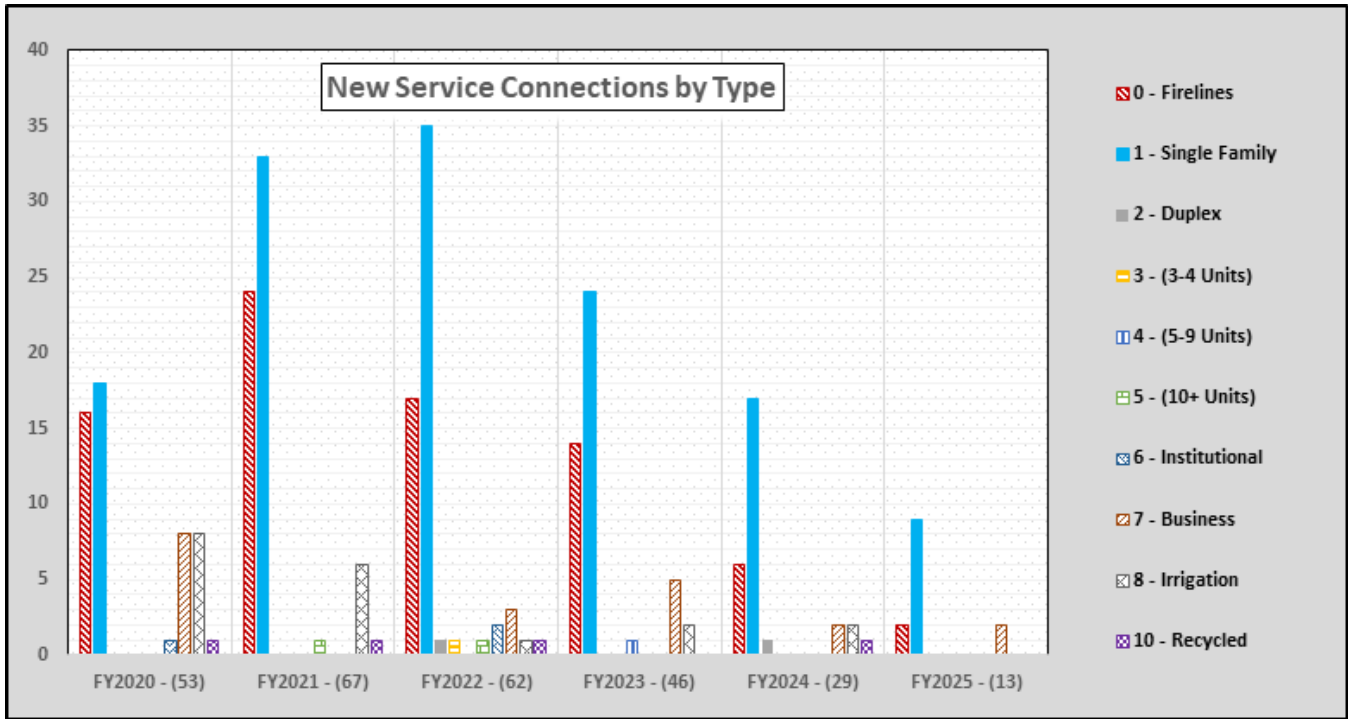
<u>Pipeline Installation</u>	<u>FY2024/25</u>	<u>FY2023/24</u>
Pipe installed during February (feet)	3,838	0
Total pipe installed this fiscal year (feet)	21,699	1,439
Total miles of pipeline within the District	908*	908*

** Reflects adjustment for abandoned pipelines*

<u>Pipe Locates (803 Responses)</u>	<u>FY2024/25</u>	<u>FY2023/24</u>
Month of February (feet)	30,539	16,209
Total this fiscal year (feet)	296,275	226,424

<u>Main Line Leaks Repaired:</u>	<u>FY2024/25</u>	<u>FY2023/24</u>
Month of February	9	11
Total this fiscal year (7/1/24-5/31/25)	103	87

<u>Services:</u>	<u>FY2024/25</u>	<u>FY2023/24</u>
Service upgrades during February	13	15
Total service upgrades this FY	128	128
Service connections installed during February	0	2
Total active services as of February 1st, 2024	60,595	60,578
(Total Including firelines)	61,984	61,960



7. Recruitments and Hires

The District is currently recruiting for the following positions:

1. Associate Engineer (2 Positions)
2. Treatment Plant Trainee II / Treatment Plant System Operator III
3. Customer Service Representative I/II
4. Watershed Aide (Seasonal)

The District recently hired new employees for the following positions:

5. Senior Administrative Assistant
6. Treatment Plant Trainee II
7. Watershed Aide (3 Positions)

8. Demand Management:

	Feb-25	FY 24/25 TOTAL	FY 23/24 TOTAL	FY 22/23 TOTAL
WATER-EFFICIENCY PROGRAMS				
<i>Water-Use Site Surveys</i>				
Conservation Assistance Program (CAP) Consultations				
Residential properties resi 1-2 (single-family)	35	417	404	291
Residential properties resi 3-5 (multi-family units)	2	7	6	3
Non-residential properties resi 6-7 (commercial)	0	0	0	3
Dedicated irrigation accounts resi 8-10 (large landscape)	2	4	0	0
Marin Master Gardeners' Marin-Friendly Garden Walks				
Residential garden walks	10	76	173	72
<i>Public Outreach, Education, Customer Service</i>				
Public outreach events (number of people attending)	0	3500	7022	17775
Public education events (number of participants)	0	225	425	328
Department customer calls/emails	349	4465	4485	4150
Outreach to new Marin Water customers (letters sent)	192	952	1908	0
<i>School Education</i>				
School assemblies				
Number of activities	0	6	19	0
Number of students reached	0	6900	21850	0
Field trips				
Number of activities	0	10	16	15
Number of students reached	0	204	343	307
Classroom presentations				
Number of activities	1	7	14	17
Number of students reached	25	192	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
<i>Incentives</i>				
Number of HECWs approved	0	2	98	103
Rain Barrel/Cisterns approved	2	13	9	15
Rain Barrel/Cisterns gallons		5560	0	0
Rain Barrel Give-a-way (Gallons)	2200	22660	4840	0
"Cash for Grass" Lawn Replacements approved	1	46	61	116
"Cash for Grass" (Best Practices) square ft. lawn replaced	0	3362	0	0
"Cash for Grass" (Standard) square ft. lawn replaced	420	53068	0	0
Number of Laundry-to-Landscape Systems (kits) approved	0	0	1	7
Hot water recirculating system rebates	0	3	11	30
Pool Cover rebates	1	21	35	27
HET rebates	0	4	17	22
Number of Smart Home Water Monitor "Flume Direct Distribution" redeemed	19	380	544	271
Number of Smart Controllers MW rebates approved	0	20	49	35
Number of Smart Controllers "RainBird compatible w/Flume" approved	0	43	131	0
Number of Smart Controllers "Rachio Direct Distribution" approved	4	113	219	77
<i>Advanced Metering Infrastructure (AMI)</i>				
AMI leak letters sent to customers (>200 GPD)	73	881	1330	1168
ORDINANCES				
<i>Water Waste Prevention</i>				
Water Waste Reports Received	7	127	224	392
Water Waste Notifications Sent	1	25	49	81
<i>Landscape Plan Review</i>				
Plans submitted	8	53	117	88
Plans exempt	2	6	23	5
Plans completed	2	15	30	20
Plans in workflow (pass & fail)	15	84	172	145
<i>Tier 4 Exemption</i>				
Inspections that resulted in a pass	0	1	2	1

9. Watershed Protection:

Fish Plants on Hold on the Watershed

Golden Mussels are a new emerging threat to California waterways. As a precautionary measure and in order to protect the District's water system from this potential threat, the planting of Rainbow Trout by the California Dept. of Fish and Wildlife at Bon Tempe has been suspended. This suspension does impact watershed visitors who enjoy trout fishing on the watershed.

Reports of Coyotes Approaching People

Rangers received several reports from hikers of a coyote approaching them. It's unknown if it's the same coyote. The reports have occurred on Deer Park Road, Fish Grade, Shaver Grade and Filter Plant Road. Rangers will continue to monitor these incidents and may request assistance from CA Dept. of Fish and Wildlife.

Rangers Continue to Support Pile Burning

The Rangers continue to assist Watershed Natural Resource and Maintenance personnel with ongoing pile burning to reduce watershed fire danger and fuel loading. Pile burns are occurring in targeted areas, including around the Bon Temp Treatment Plant and currently the area below the old Air Force Base at West Peak. The burns will continue prior to the start of fire season.

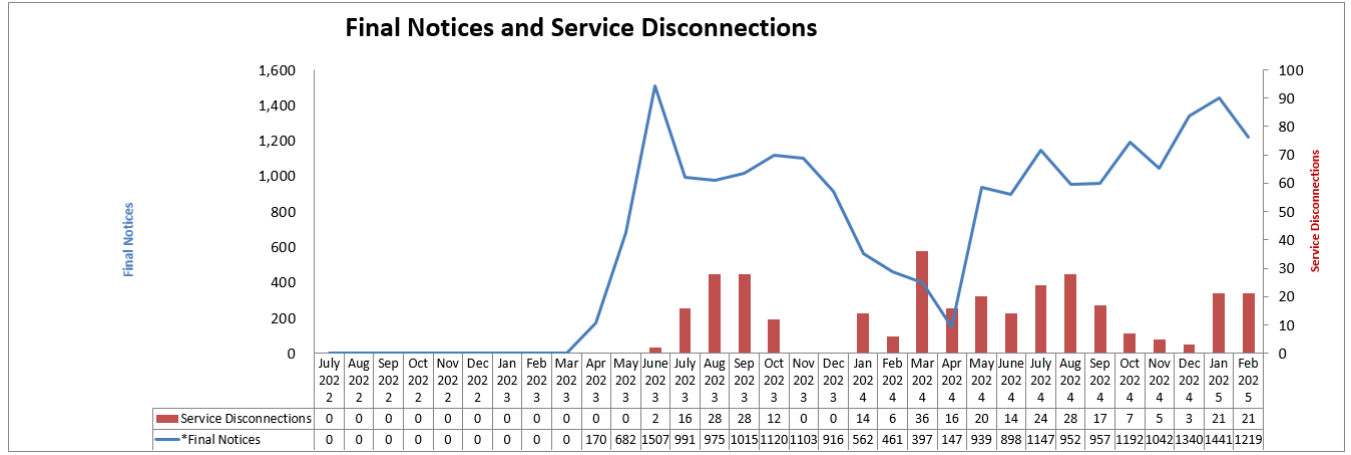
Incidents and Events	628
Visitor Assists	127
Warnings	123
Fish and Game checks	95
Dam Checks	91
Citations	74
Assist Maintenance	64
Misc. Law Enforcement Calls	22
Vandalism	5
Preventive Search and Rescue	5
Humane/Animal Call	4
Fire Service	3
Search and Rescue	3
Medical Aid	2
Suspicious Circumstance	2
Ranger Callout	1
Citizen Complaint Illegal Bike Use	1
Citizen Complaint: eBike	1
Vehicle Accident	1
Citizen Complaint: Off Leash Dogs	1
Theft	1
Disturbance/Dispute	1
Assist Other MMWD Work Group	1

Citations Issued	74
Nonpayment of Parking Fees	65
Obstructing Traffic/6 ft. of Center	7
Parking After Sunset	1
Fishing Without License	1

Type of Patrol	
Foot	61
Bike	71


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